

PACIFIC COAST GROUND FISH FISHERY MANAGEMENT PLAN

FOR THE CALIFORNIA, OREGON, AND
WASHINGTON GROUND FISH FISHERY

APPENDIX B

PART 4

**HABITAT SUITABILITY PROBABILITY MAPS FOR INDIVIDUAL
GROUND FISH SPECIES AND LIFE HISTORY STAGES**

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September 2005

Pacific Coast Groundfish Fishery Management Plan

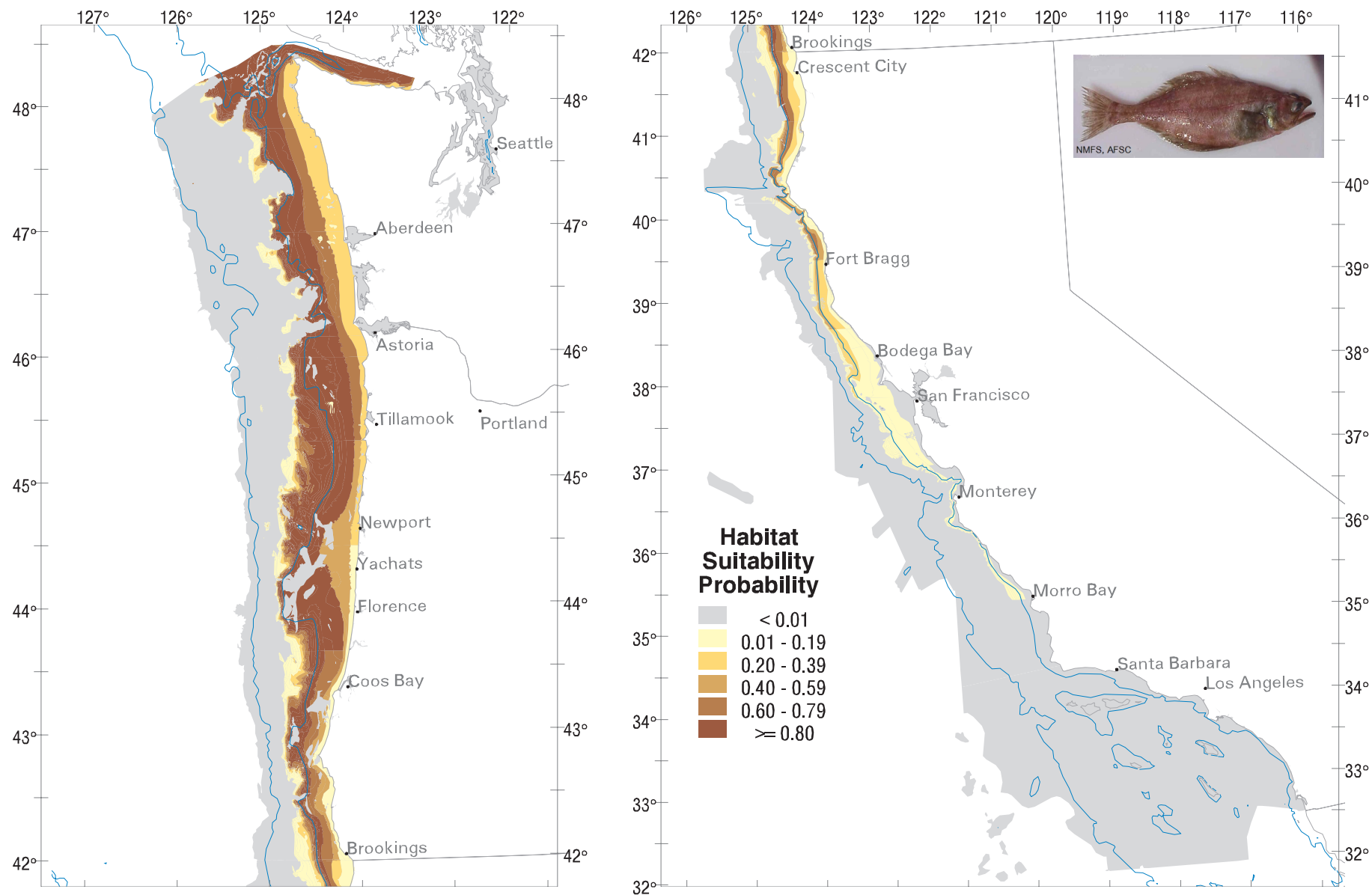
Appendix B.4 EFH Model and HSP Maps

To assist NMFS and the Council in describing Essential Fish Habitat, a model was developed to predict an overall measure of the suitability of habitat in particular locations for as many species as possible. Where possible, the suitability of habitat was measured using the occurrence of fish species in NMFS trawl survey catches. For species not well represented in the trawl catches, information from the scientific literature was used. Species and life stages for which no specific information could be found were considered using the precautionary principle.

The EFH model characterizes habitat in terms of three variables: depth, latitude, and substrate (both physical and biogenic substrate, where possible). For the purposes of the model these three characteristics provide a reasonable representation of the essential features of habitat that influence the occurrence of fish. Depending on these characteristics and the observed distributions of fish in relation to them, each location (a parcel or polygon of habitat in the GIS) is allocated a suitability value between 0 and 100%. This is called the *Habitat Suitability Probability*, or HSP, and it is calculated for as many species and life stages in the FMP as possible based on available data. These scores and the differences between scores for different locations are then used to develop a proxy for the areas that can be regarded as “essential”. The higher the HSP, the more likely the habitat area should be identified as EFH.

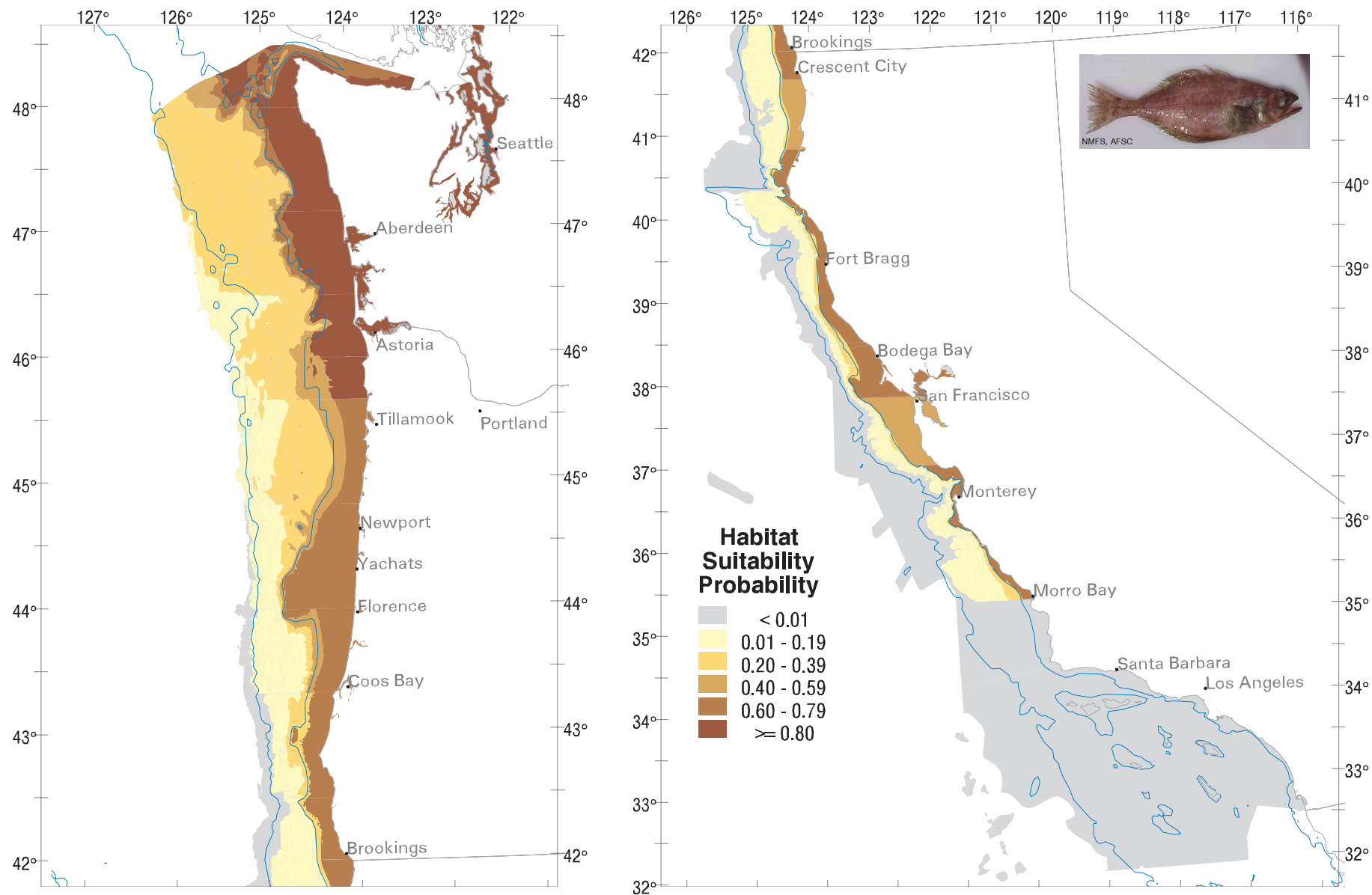
The EFH identification model provides spatially explicit estimates of HSP for 168 groundfish species/life stage combinations, including the adults of all species in the FMP. Distribution ranges for depth and latitude were derived where possible from in-situ observations of occurrence in NMFS trawl survey catches. Where survey data were insufficient, depth and latitude ranges were extracted from reports and papers in the scientific literature. Preferences for substrate types were also taken from the scientific literature. The HSP values for each habitat polygon are mapped using GIS software. For the reader unfamiliar with GIS, a primer is contained on page 14 of the Risk Assessment.

Arrowtooth Flounder - Adult



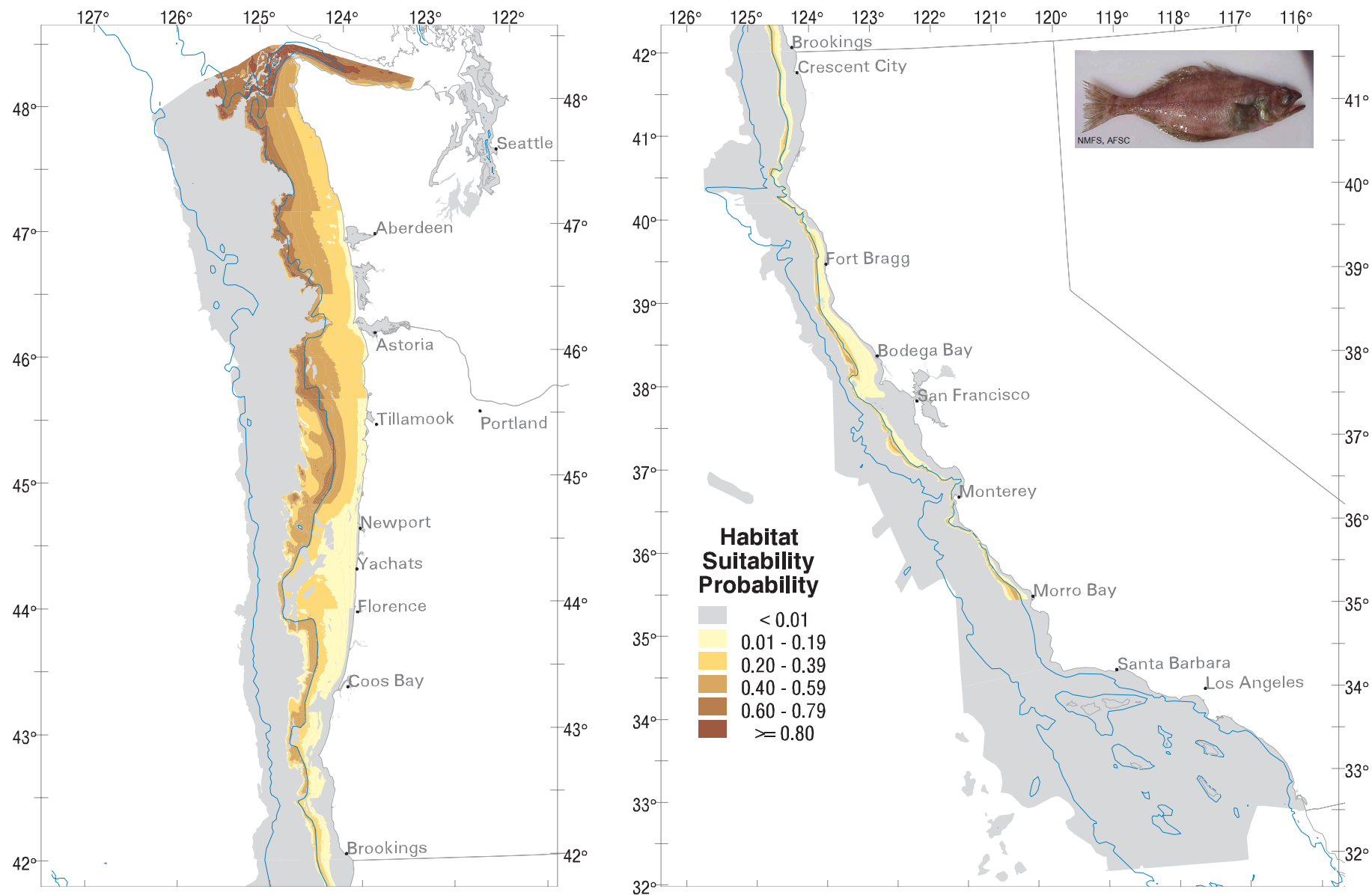
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey+*

Arrowtooth Flounder - Eggs



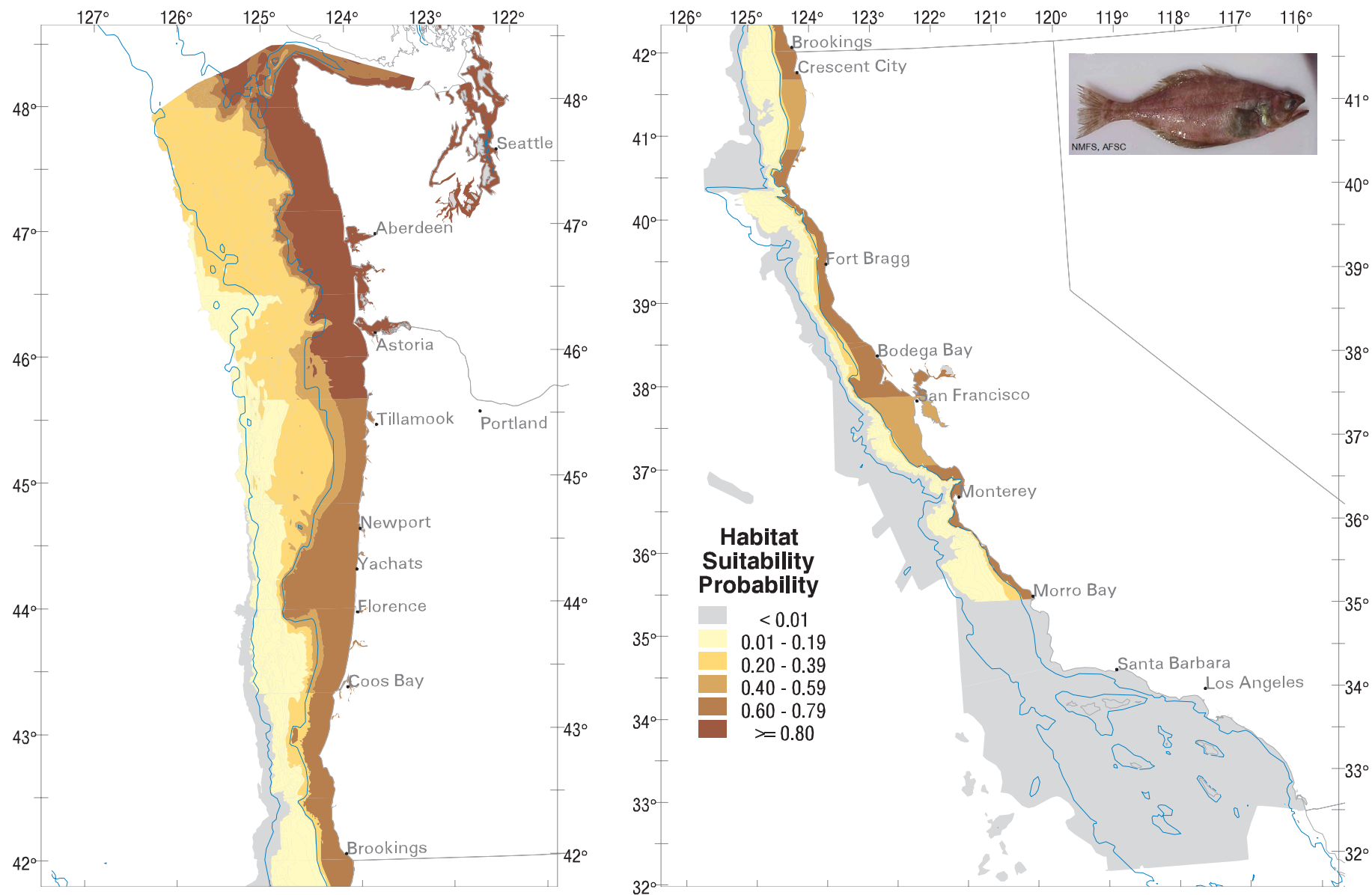
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Arrowtooth Flounder - Juvenile



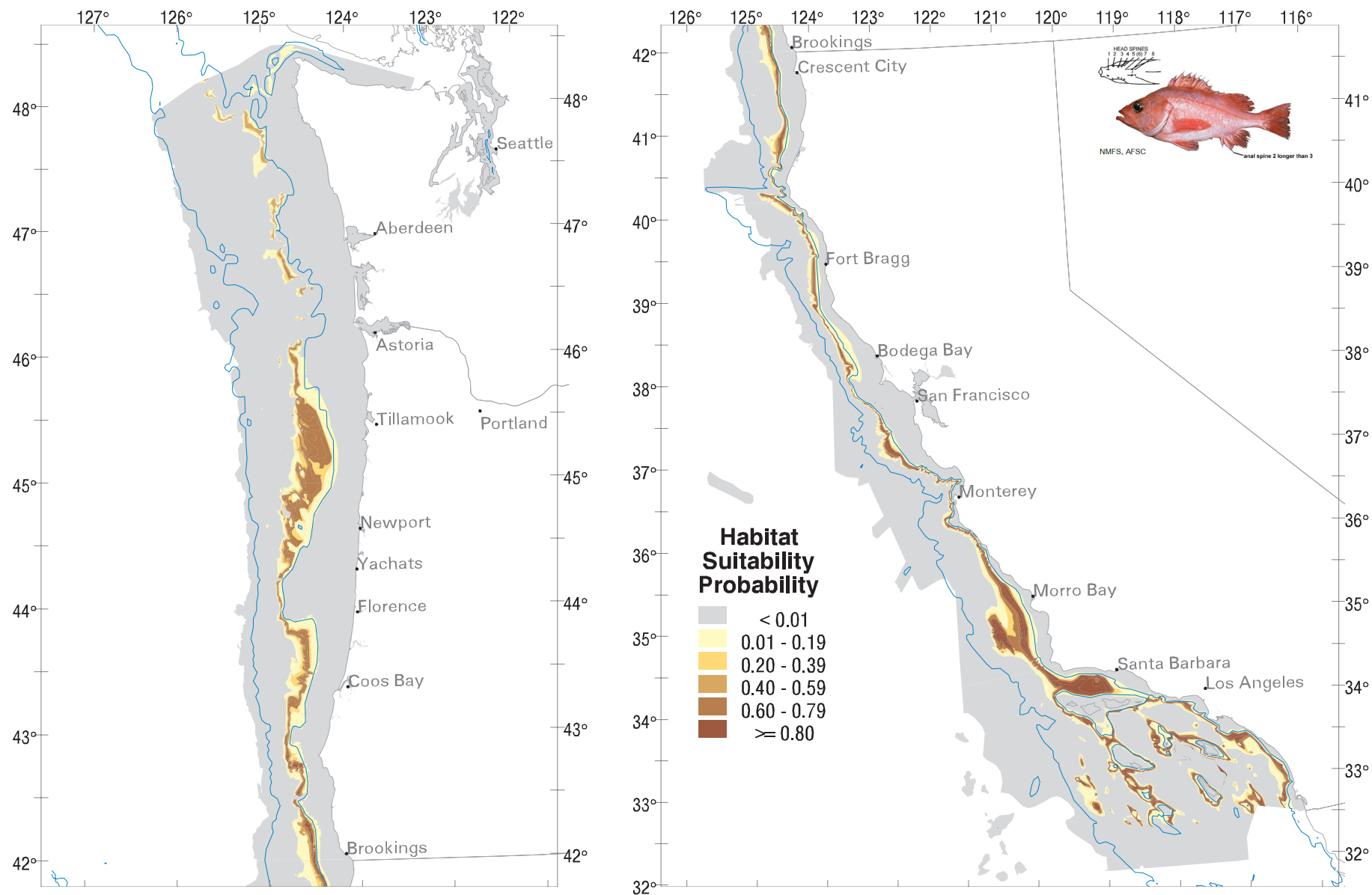
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Arrowtooth Flounder - Larvae



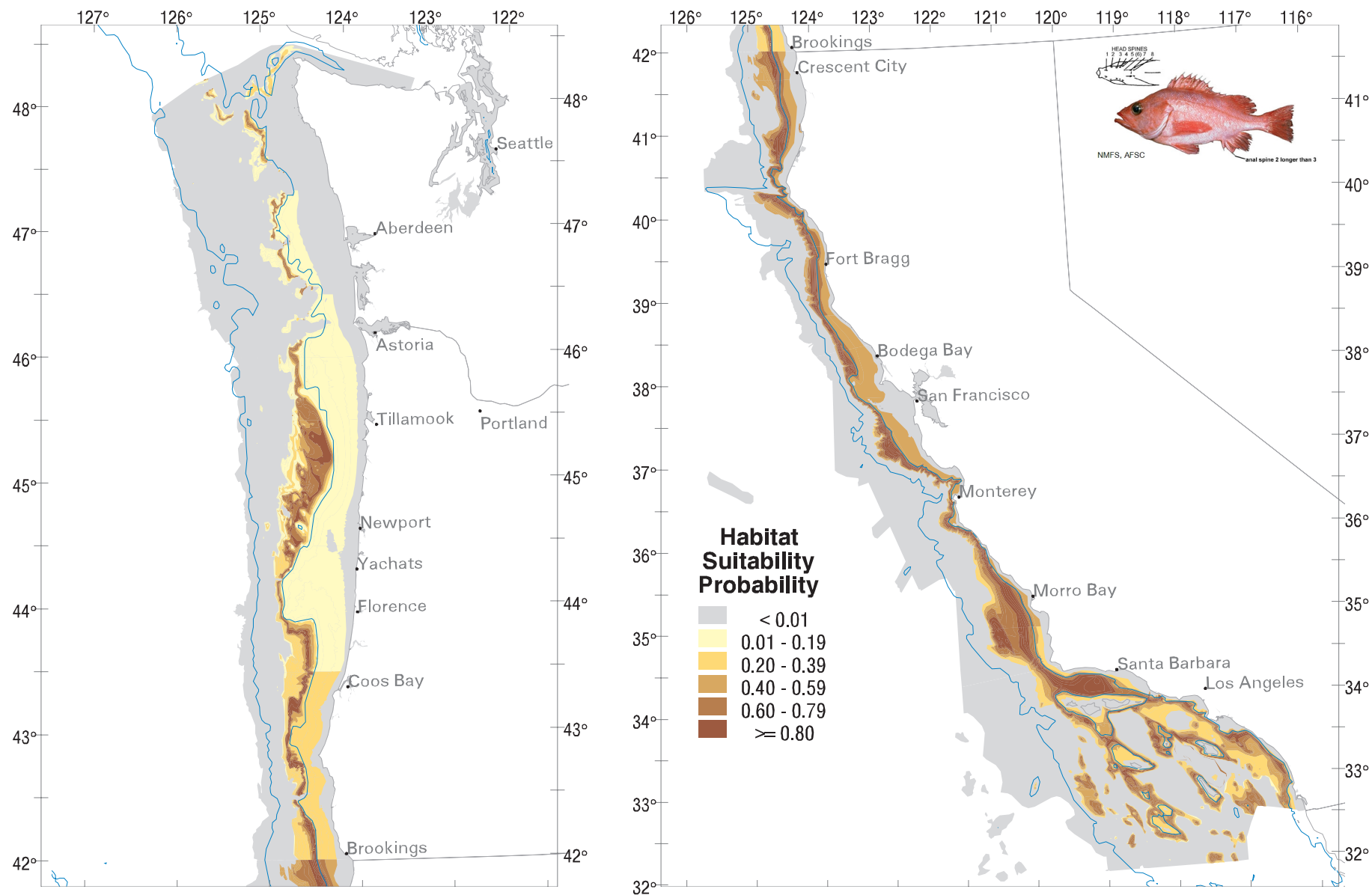
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Aurora Rockfish - Adult



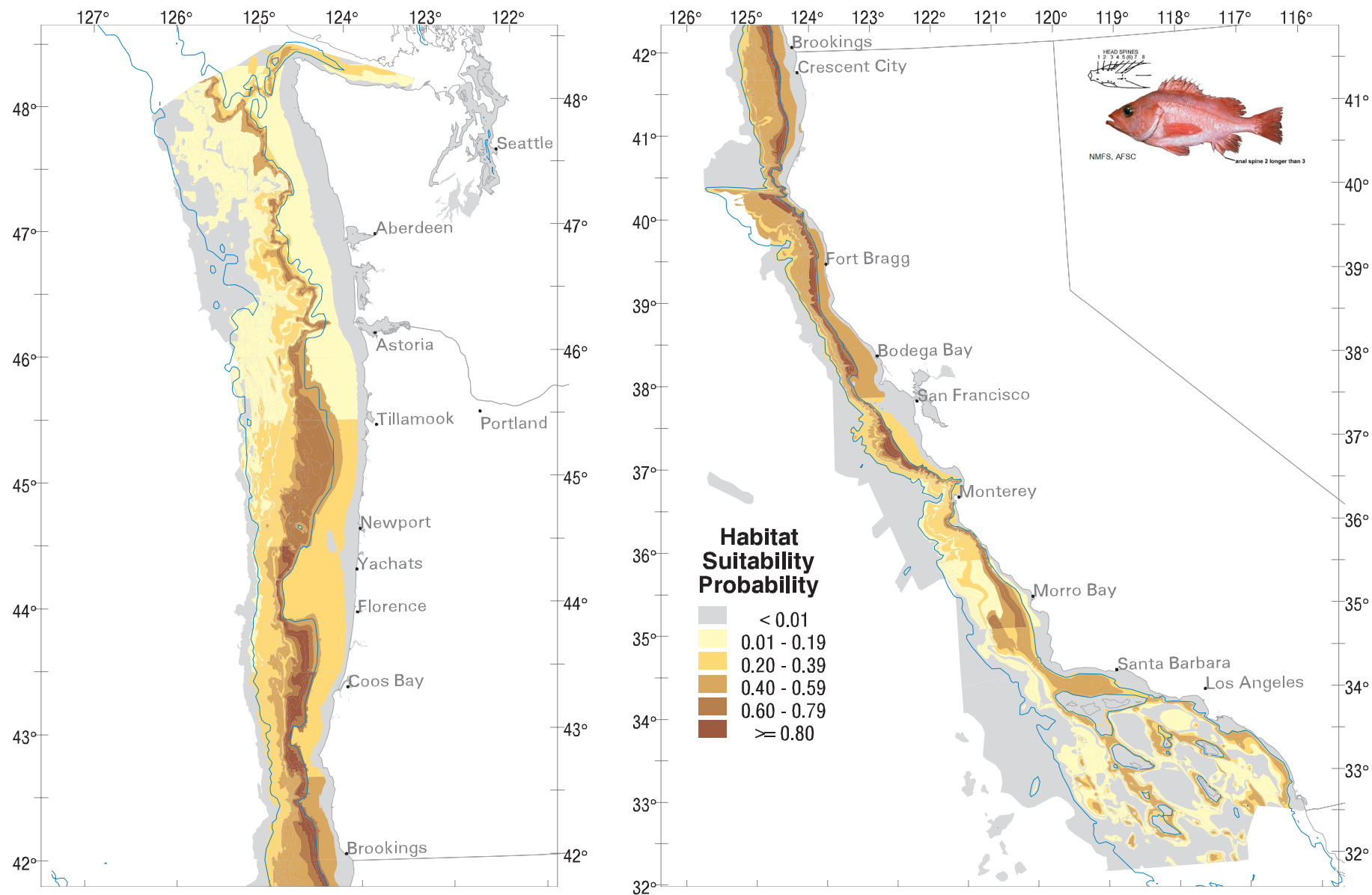
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey

Aurora Rockfish - Juvenile



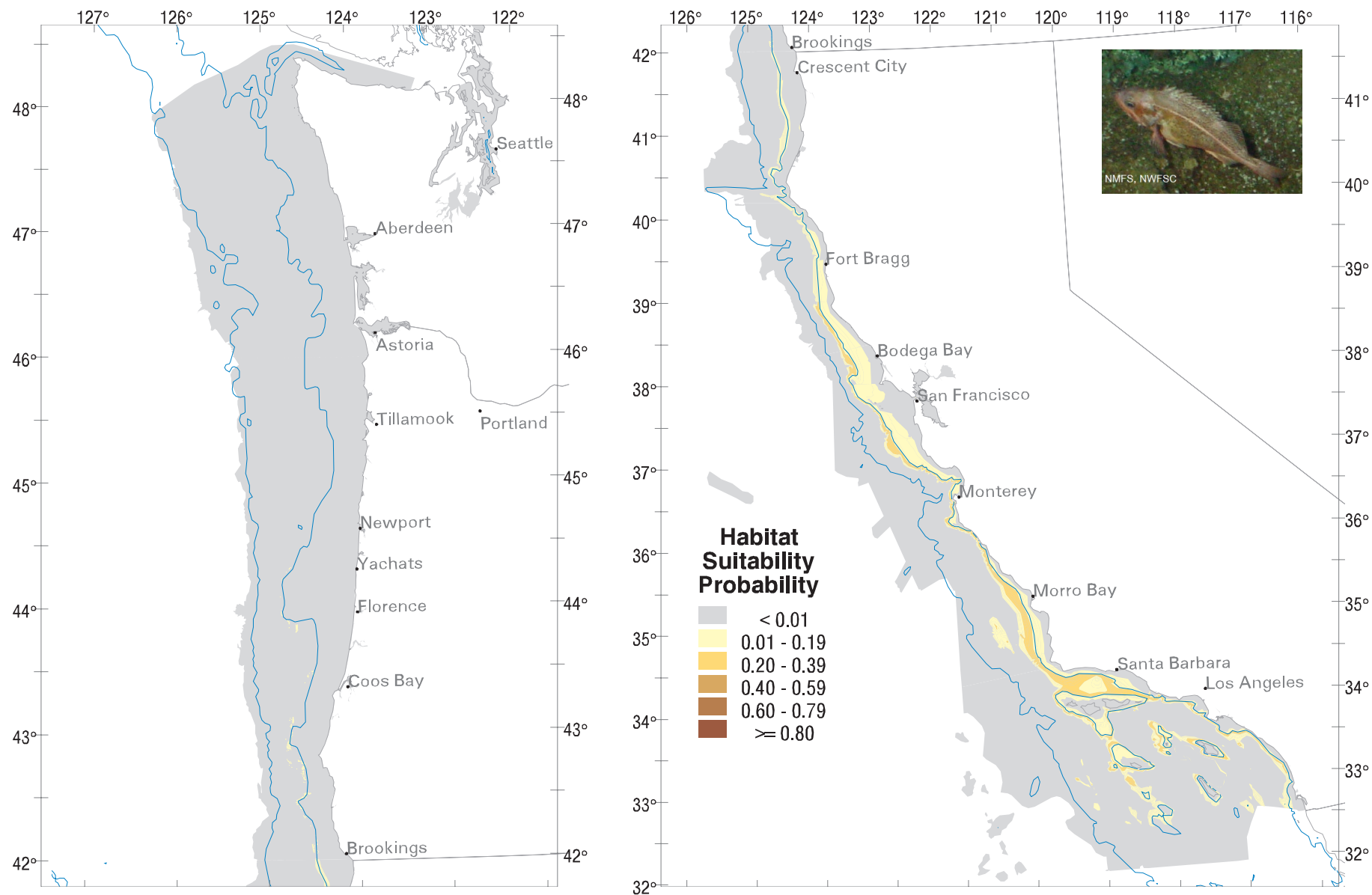
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Aurora Rockfish - Larvae



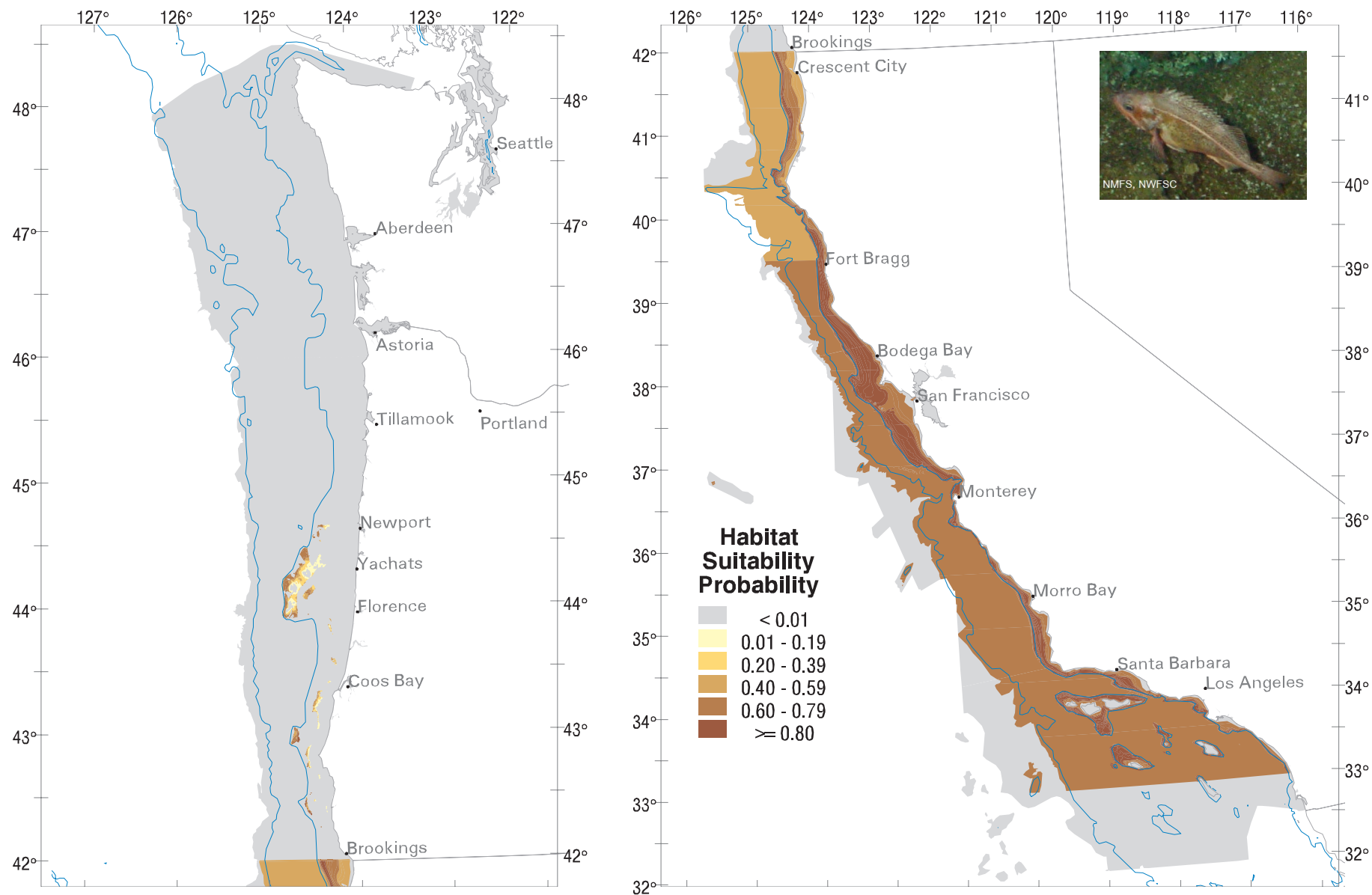
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Bank Rockfish - Adult



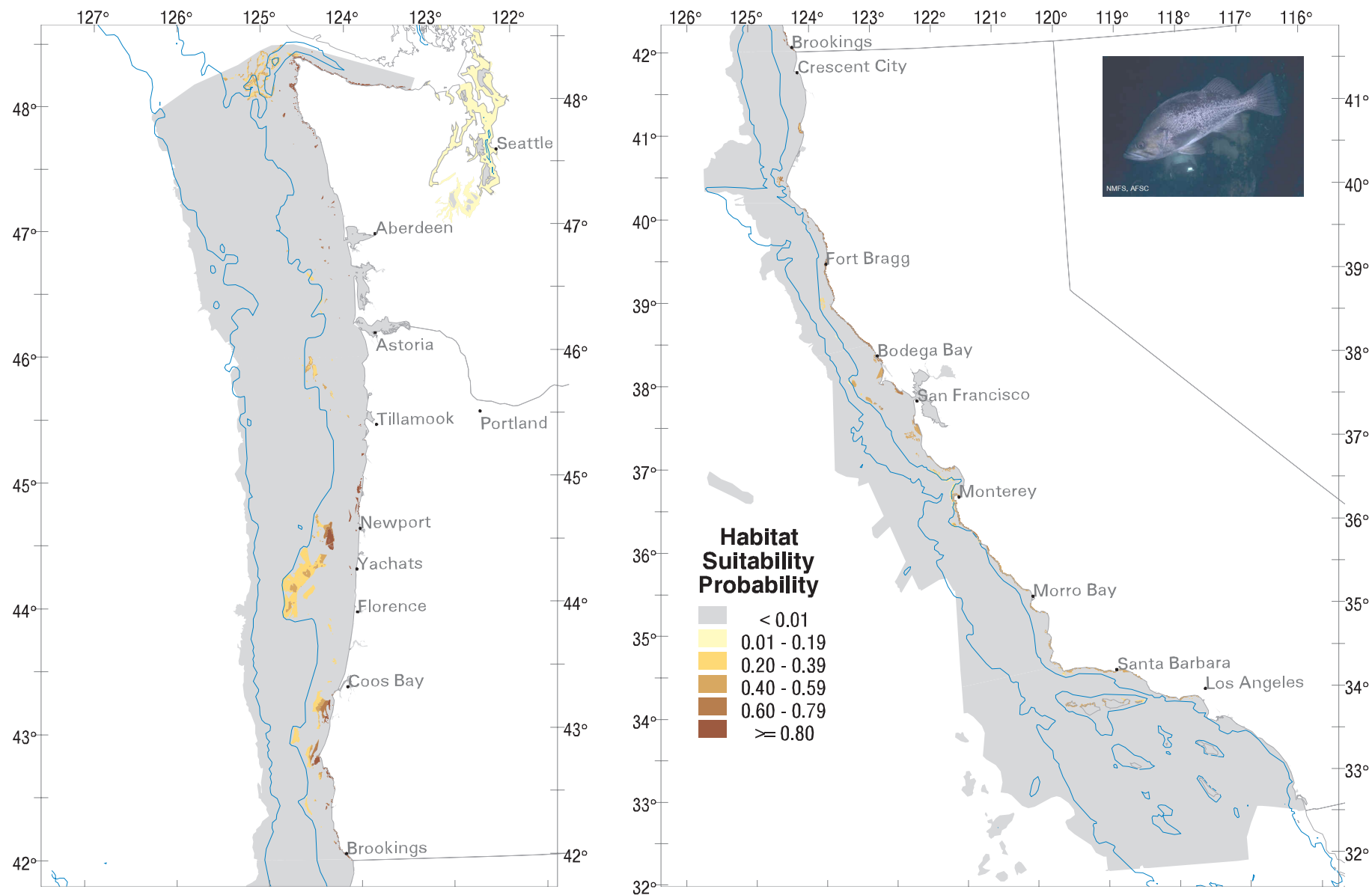
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Bank Rockfish - Juvenile



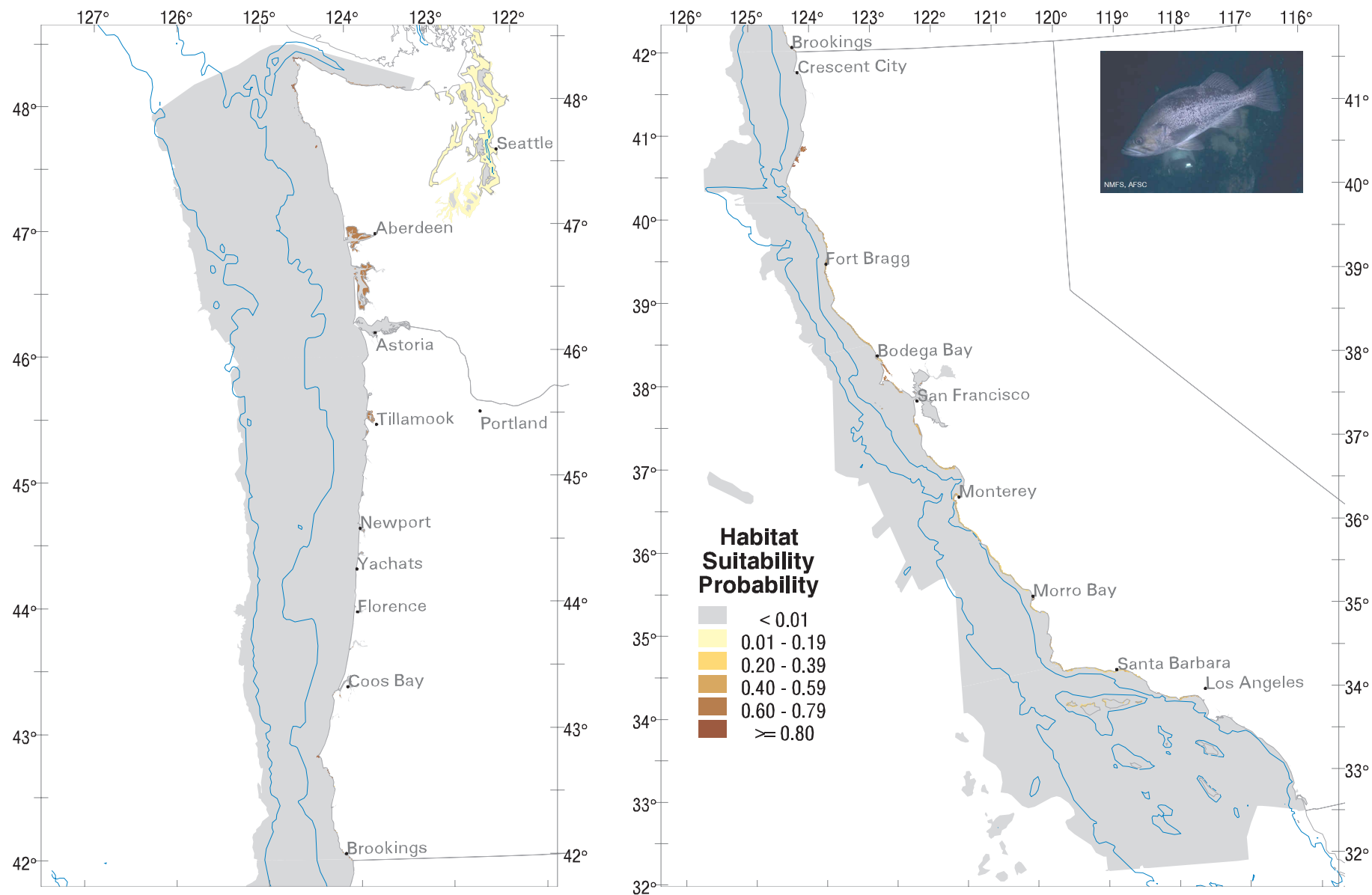
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Black Rockfish - Adult



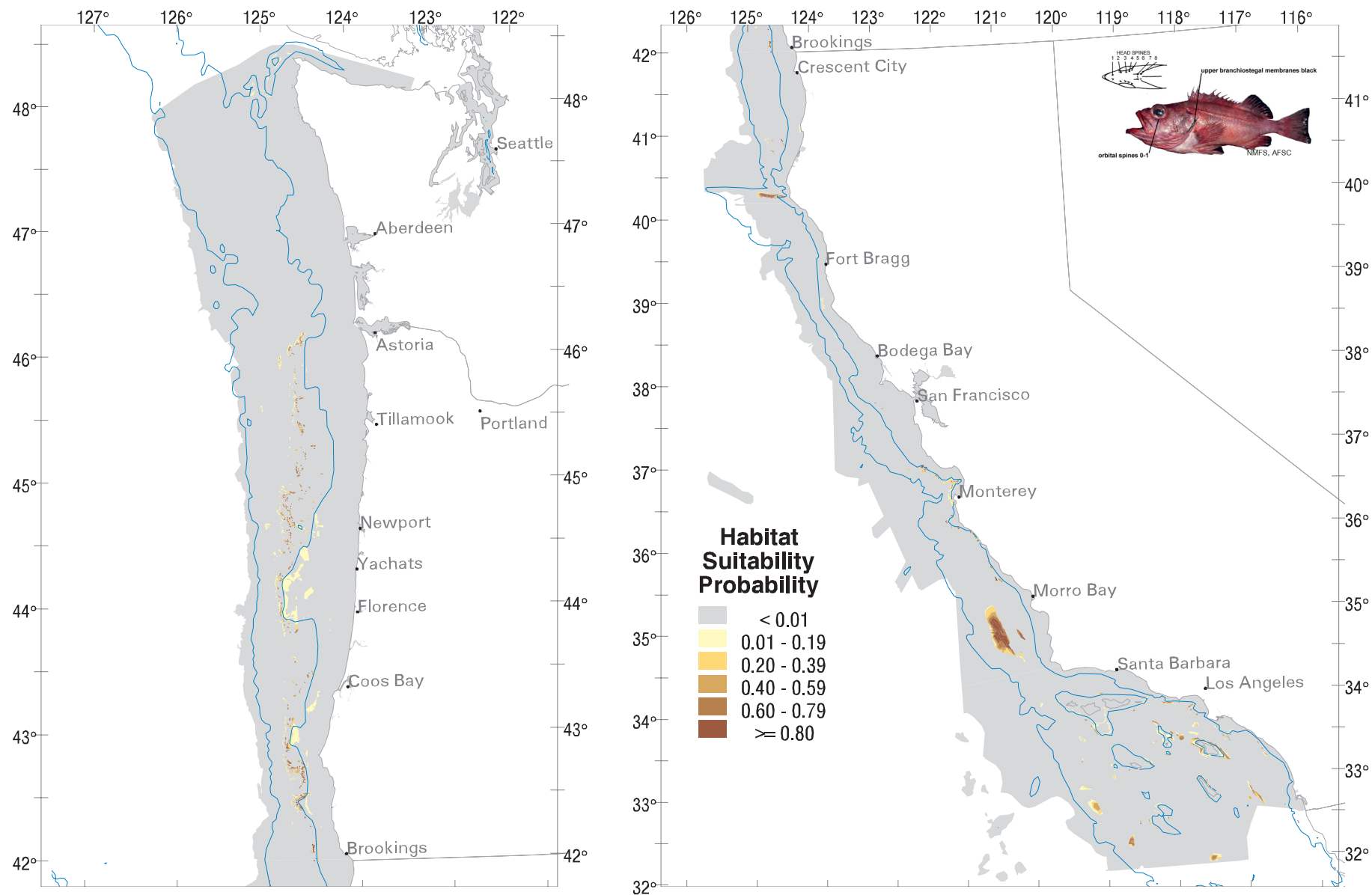
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Black Rockfish - Juvenile



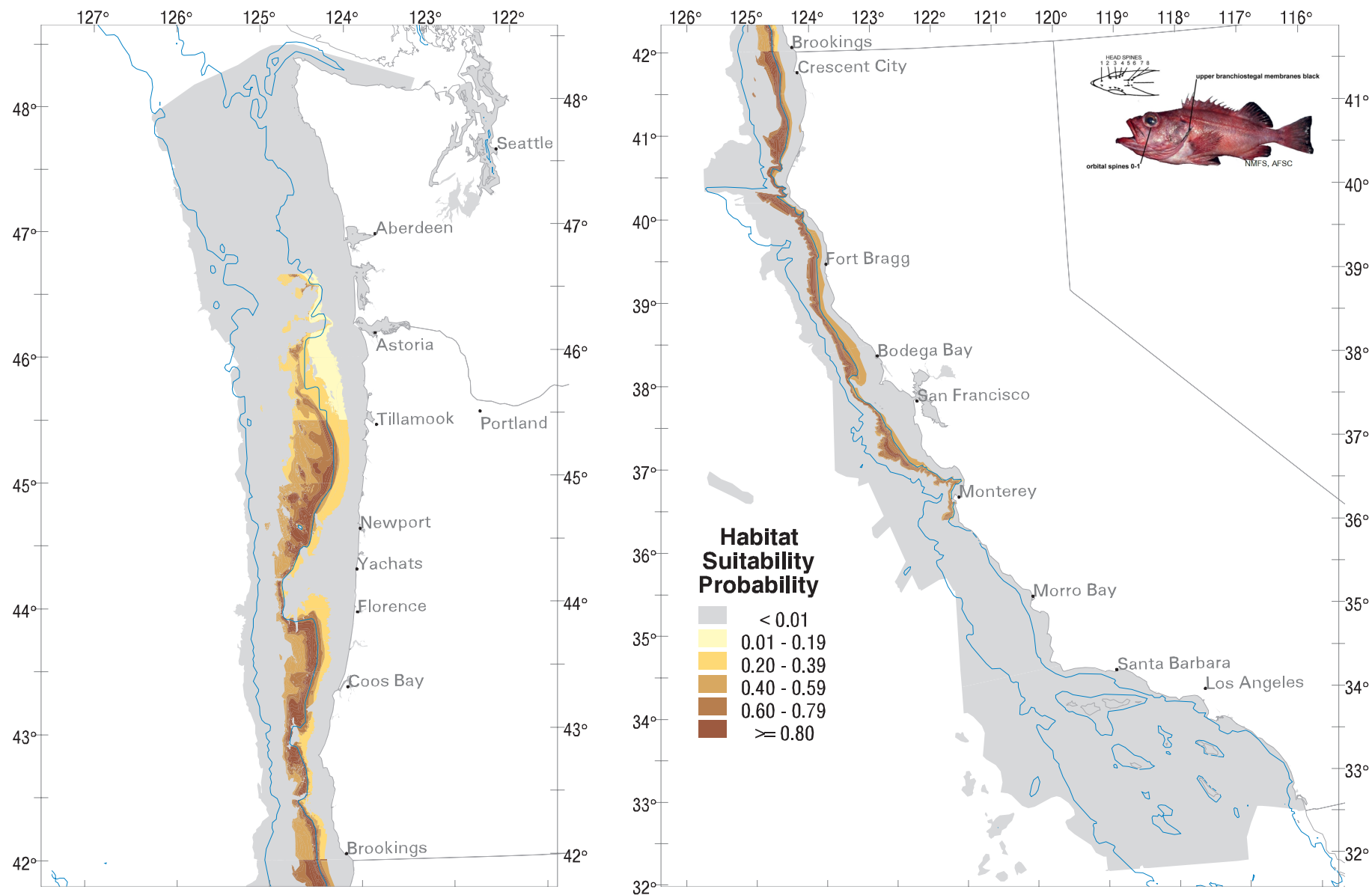
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Blackgill Rockfish - Adult



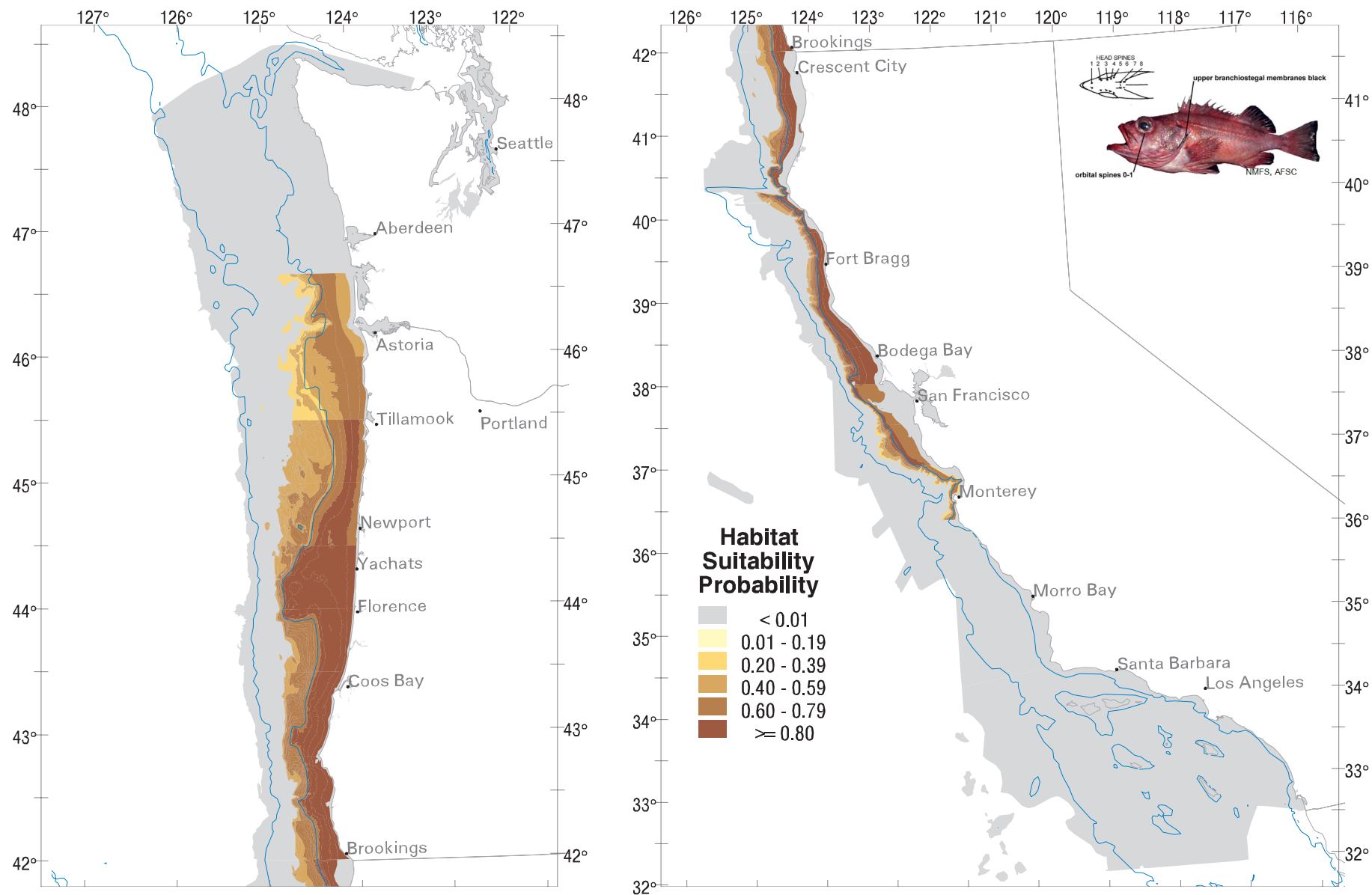
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Blackgill Rockfish - Juvenile



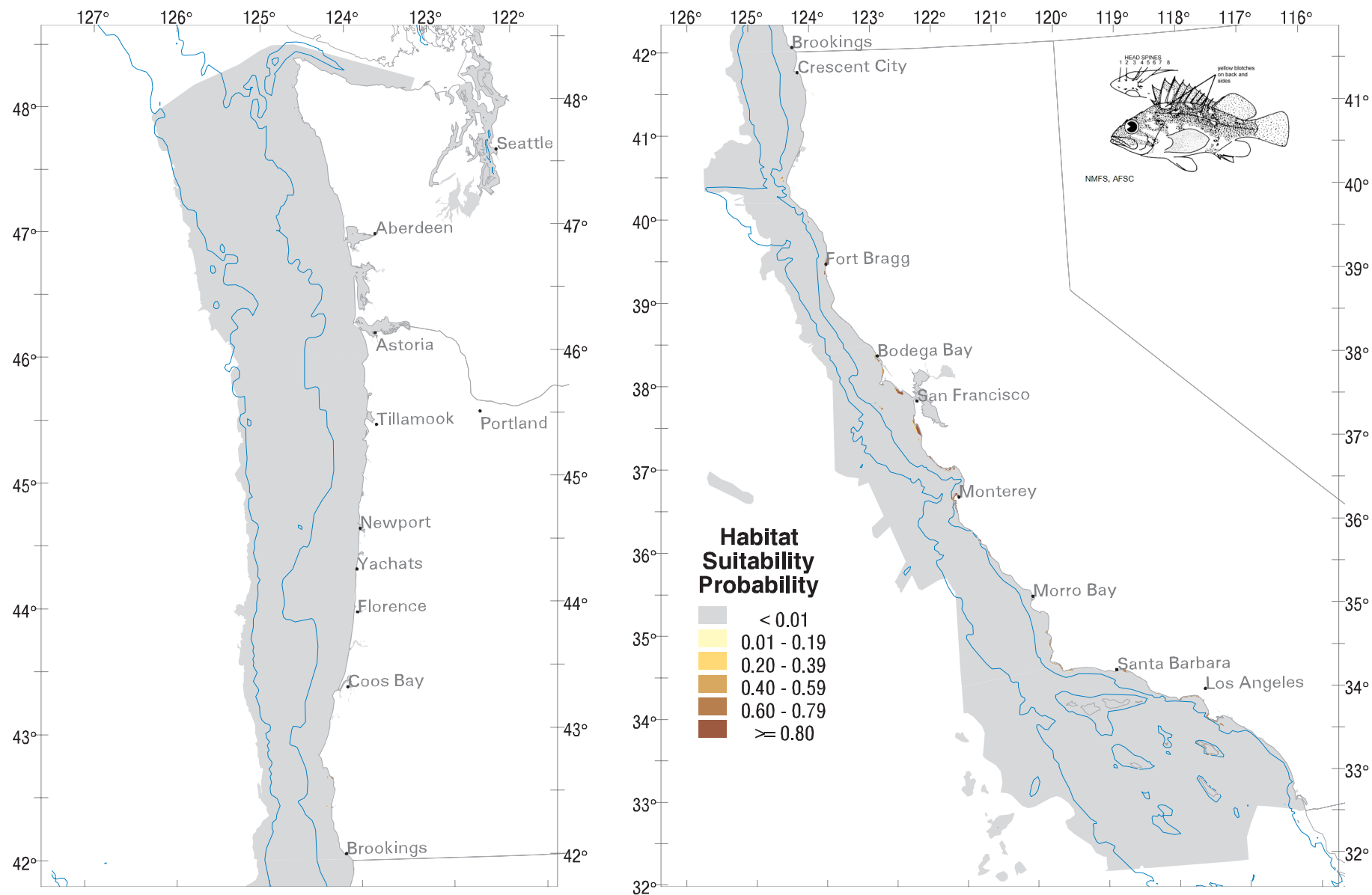
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Blackgill Rockfish - Larvae



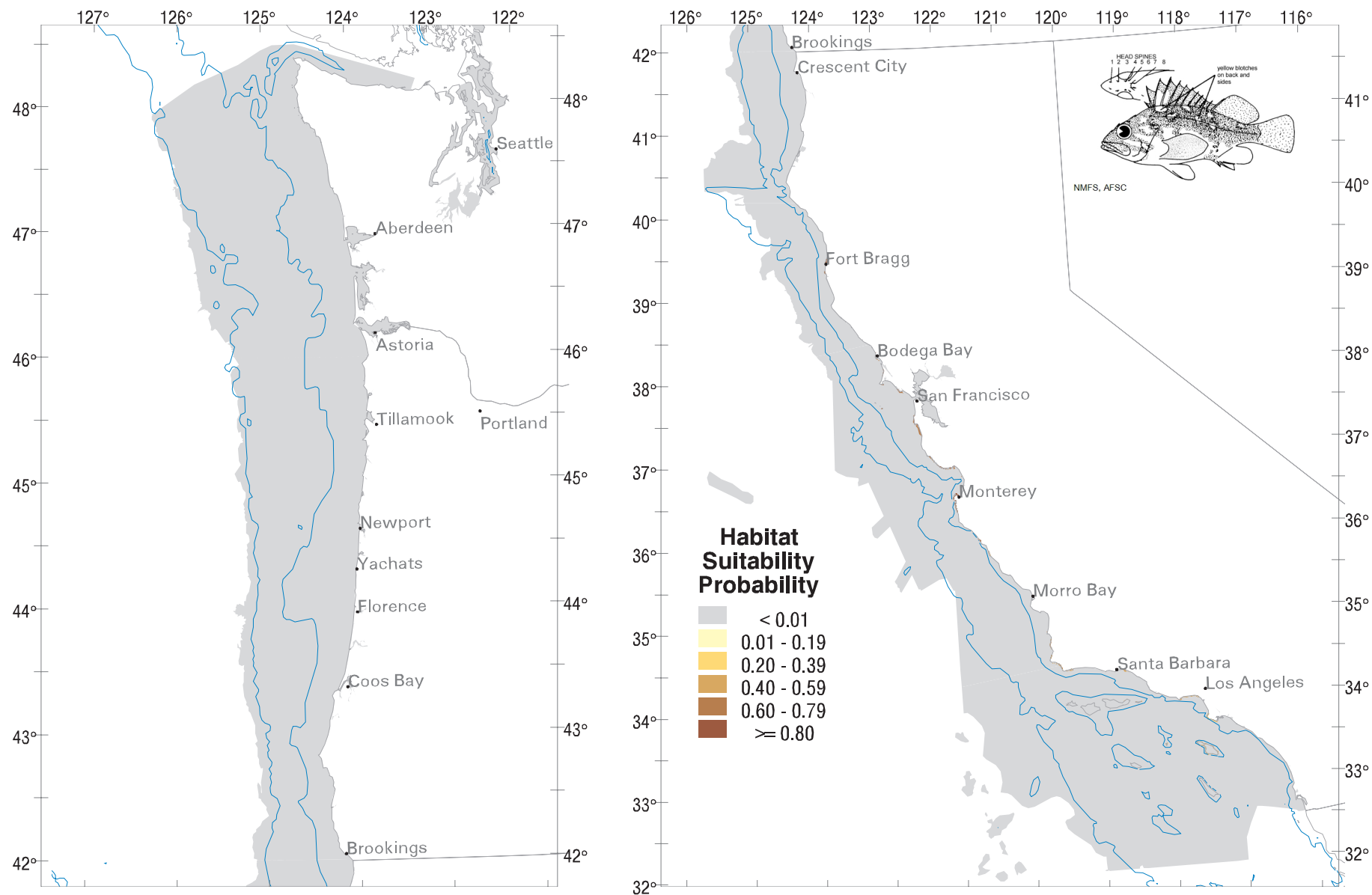
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Black and Yellow Rockfish - Adult



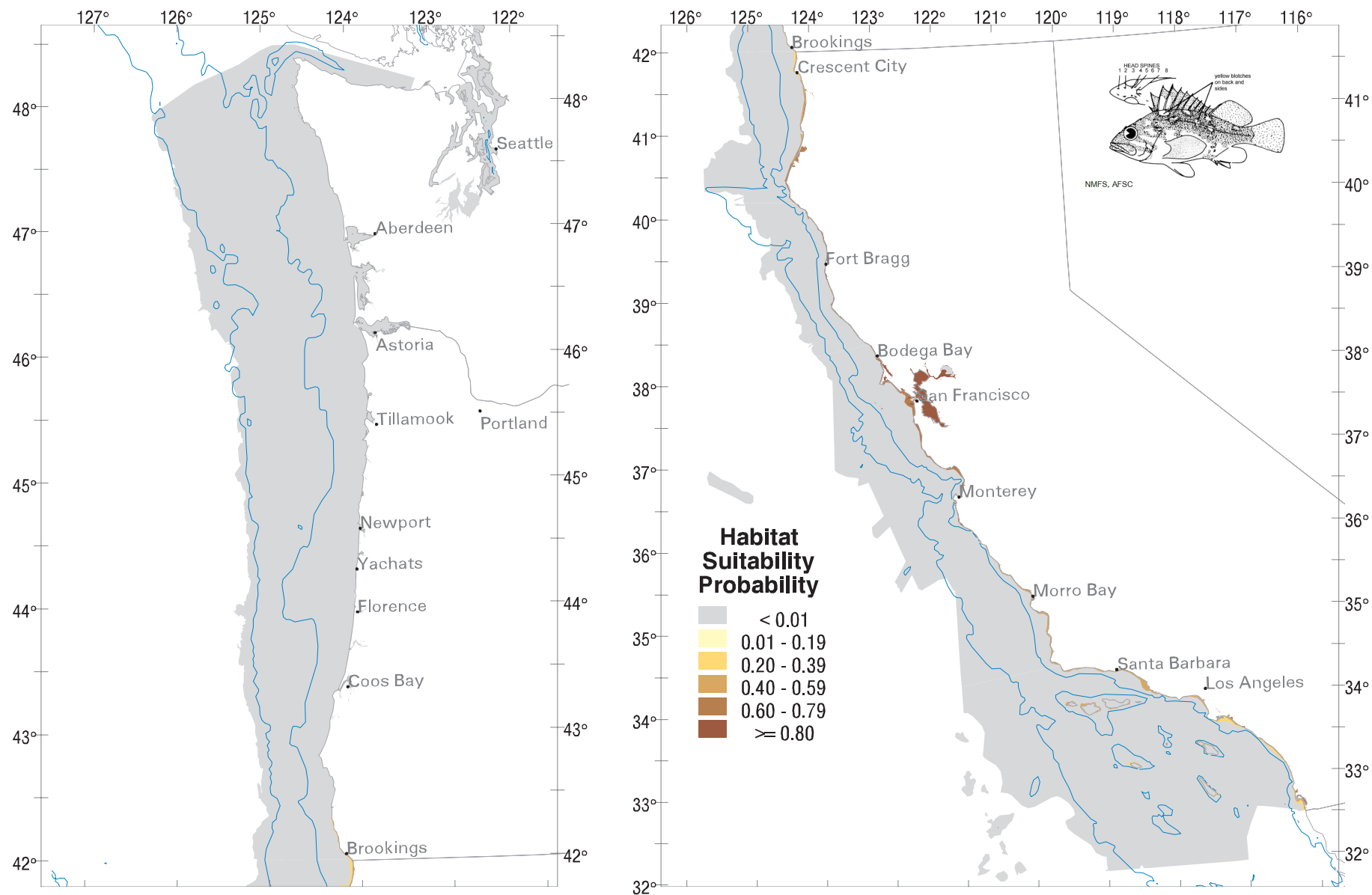
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Black and Yellow Rockfish - Juvenile



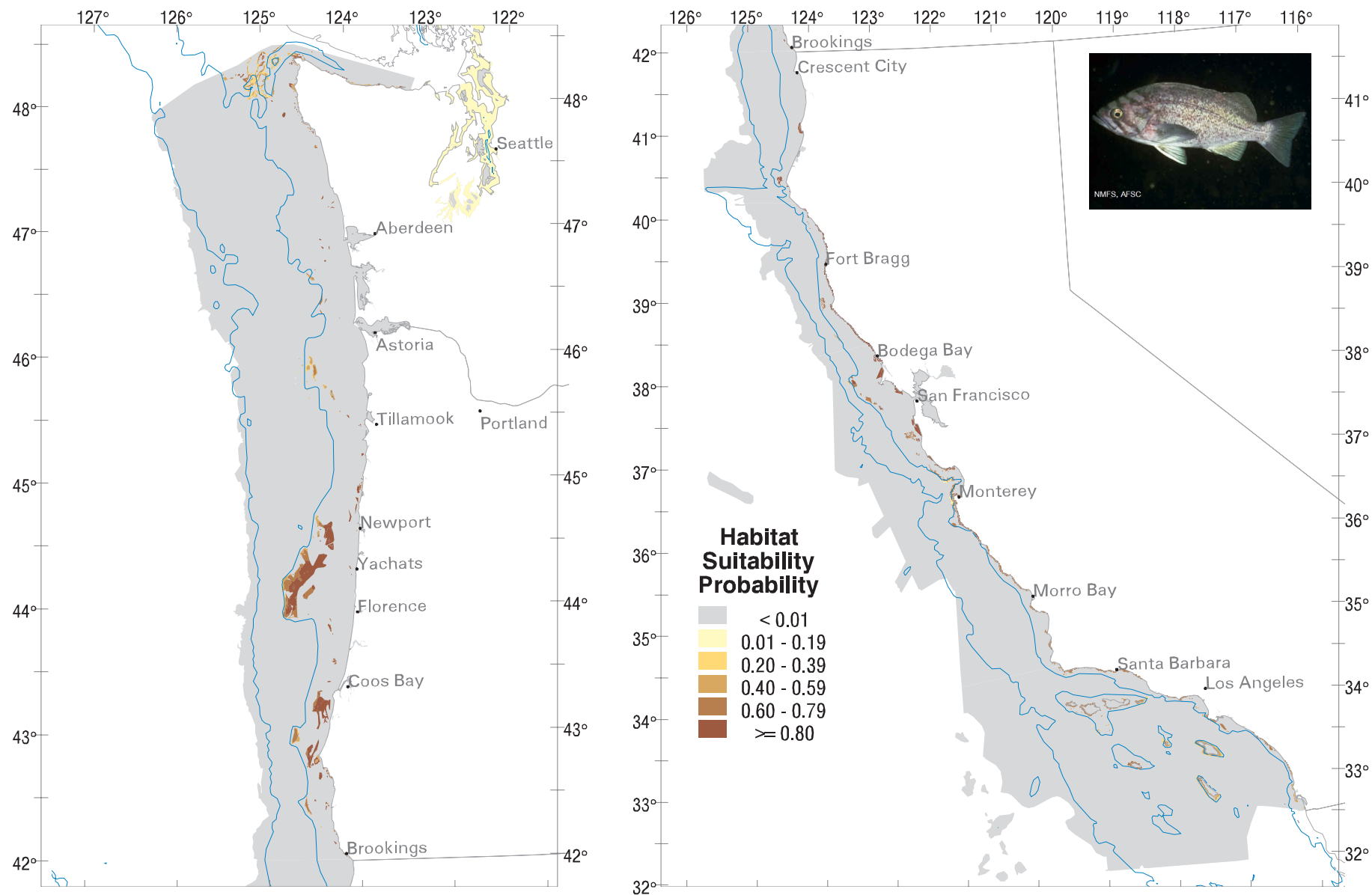
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Black and Yellow Rockfish - Larvae



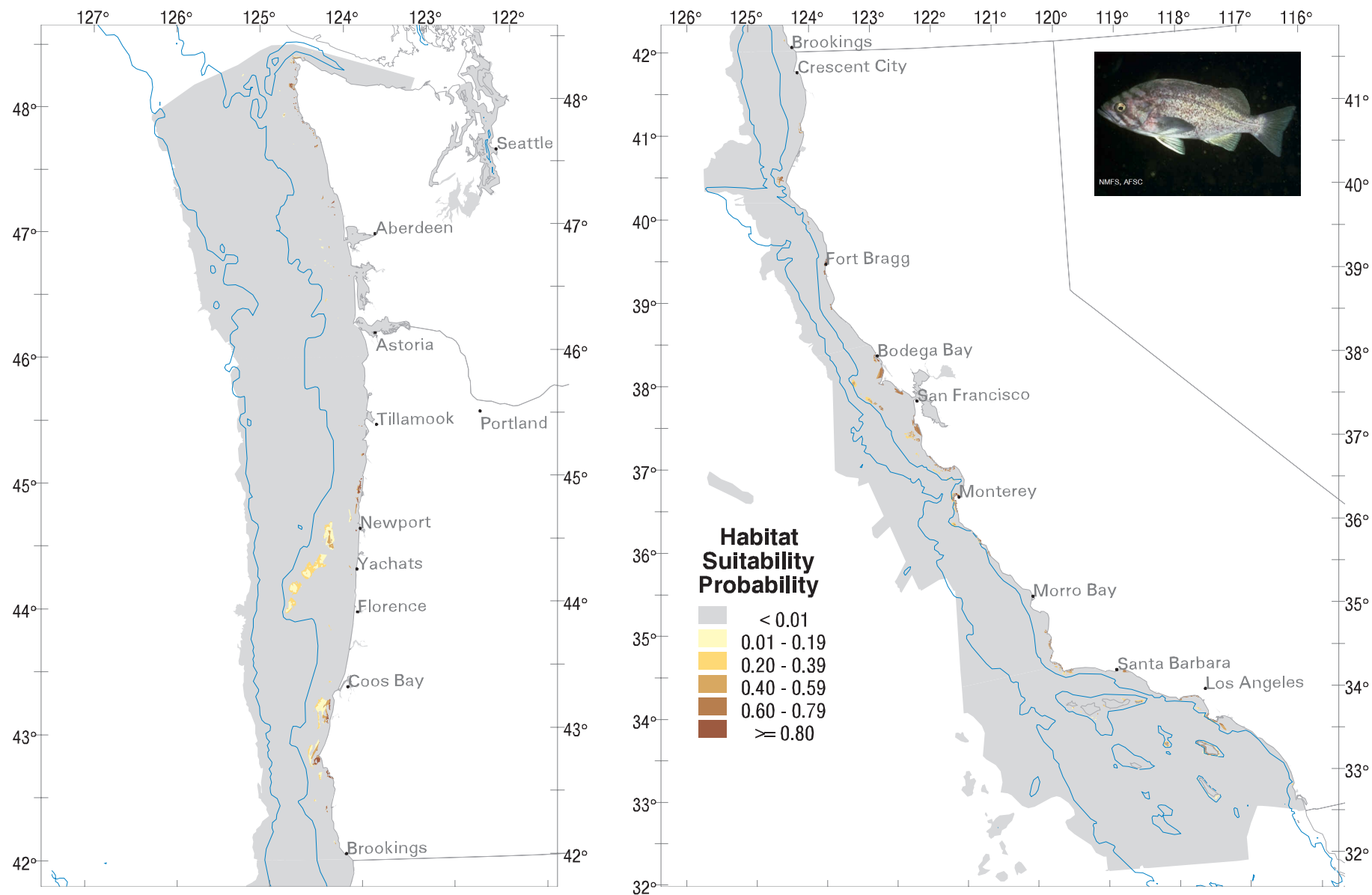
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Blue Rockfish - Adult

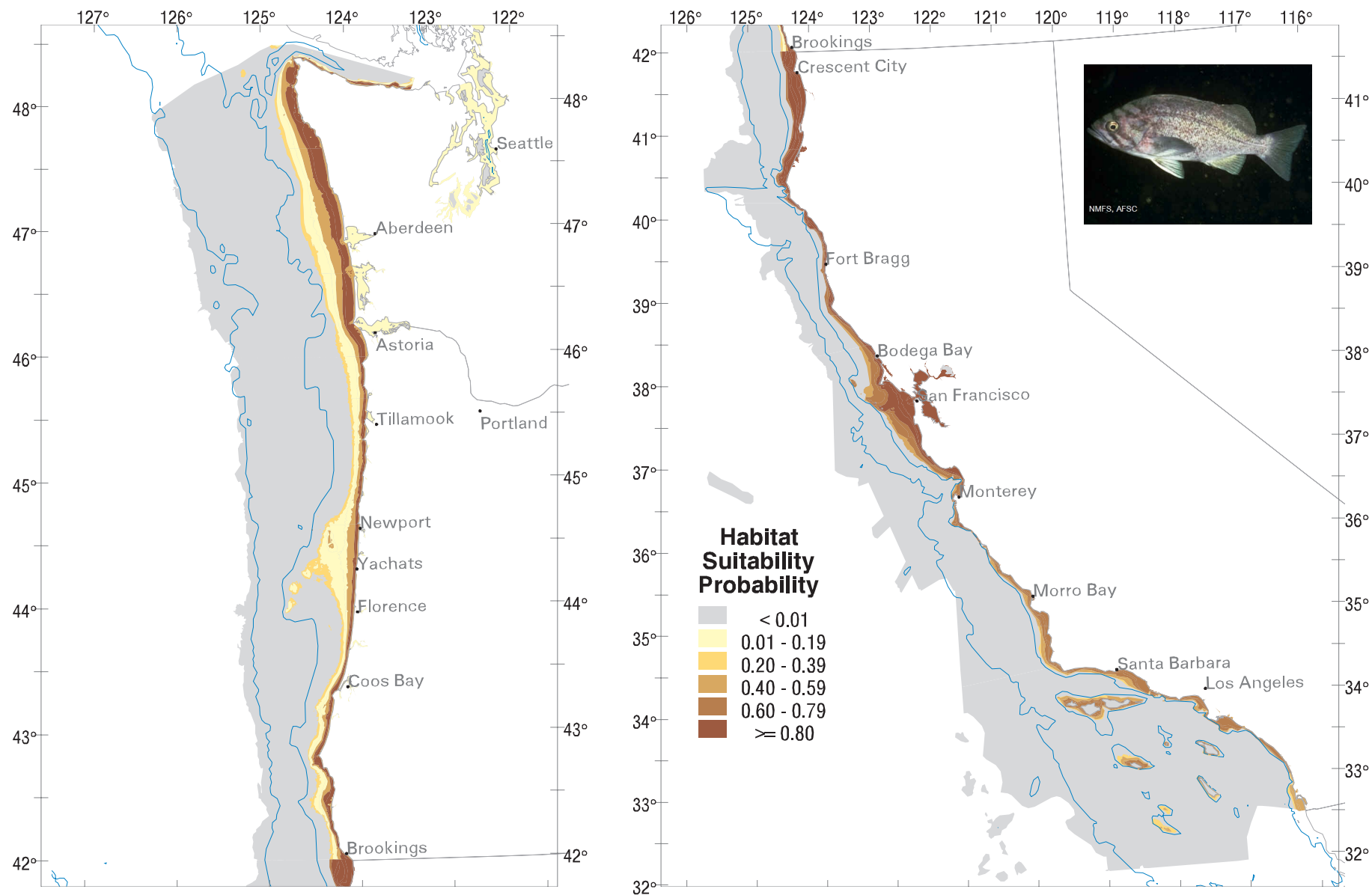


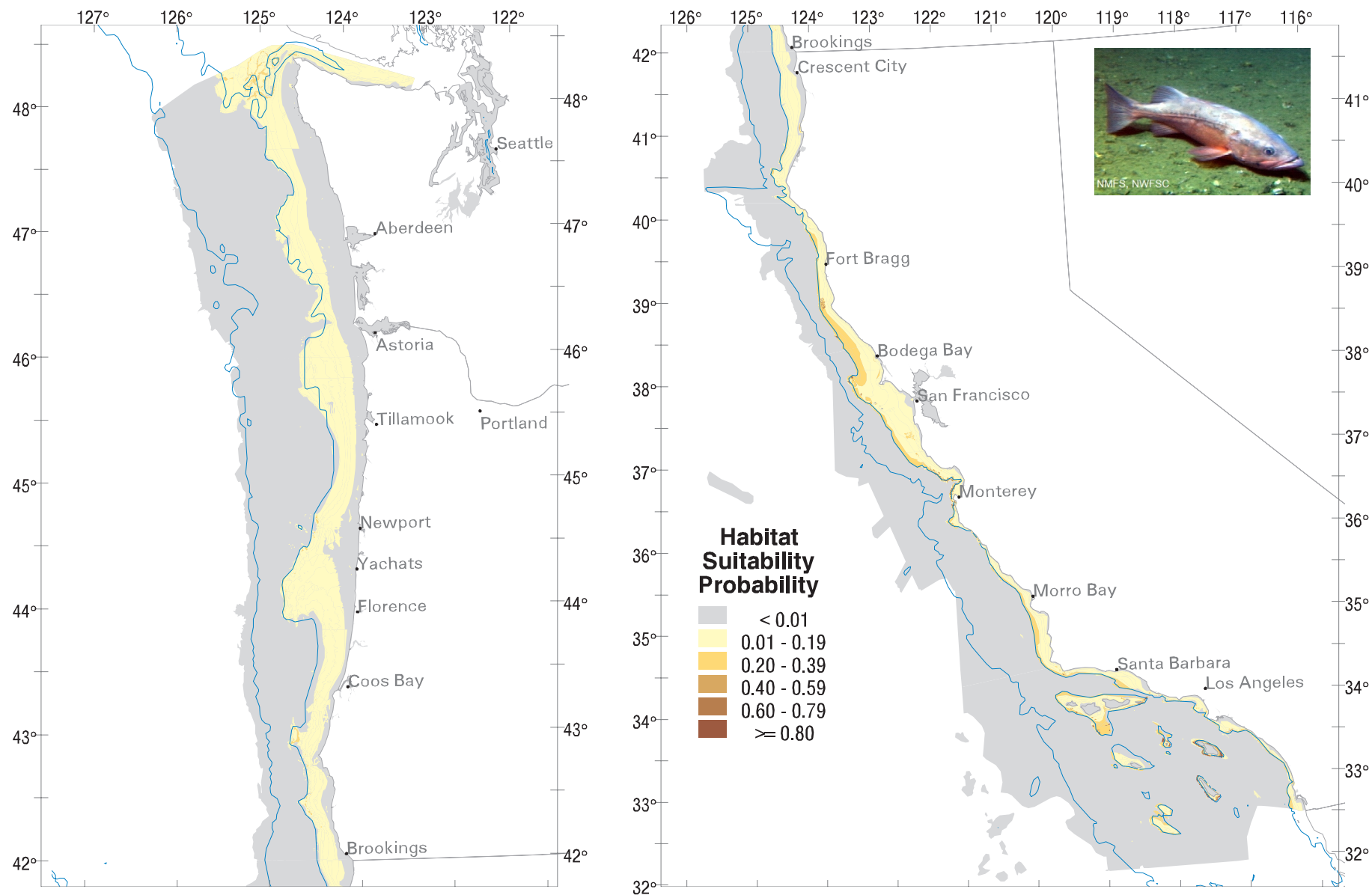
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Blue Rockfish - Juvenile

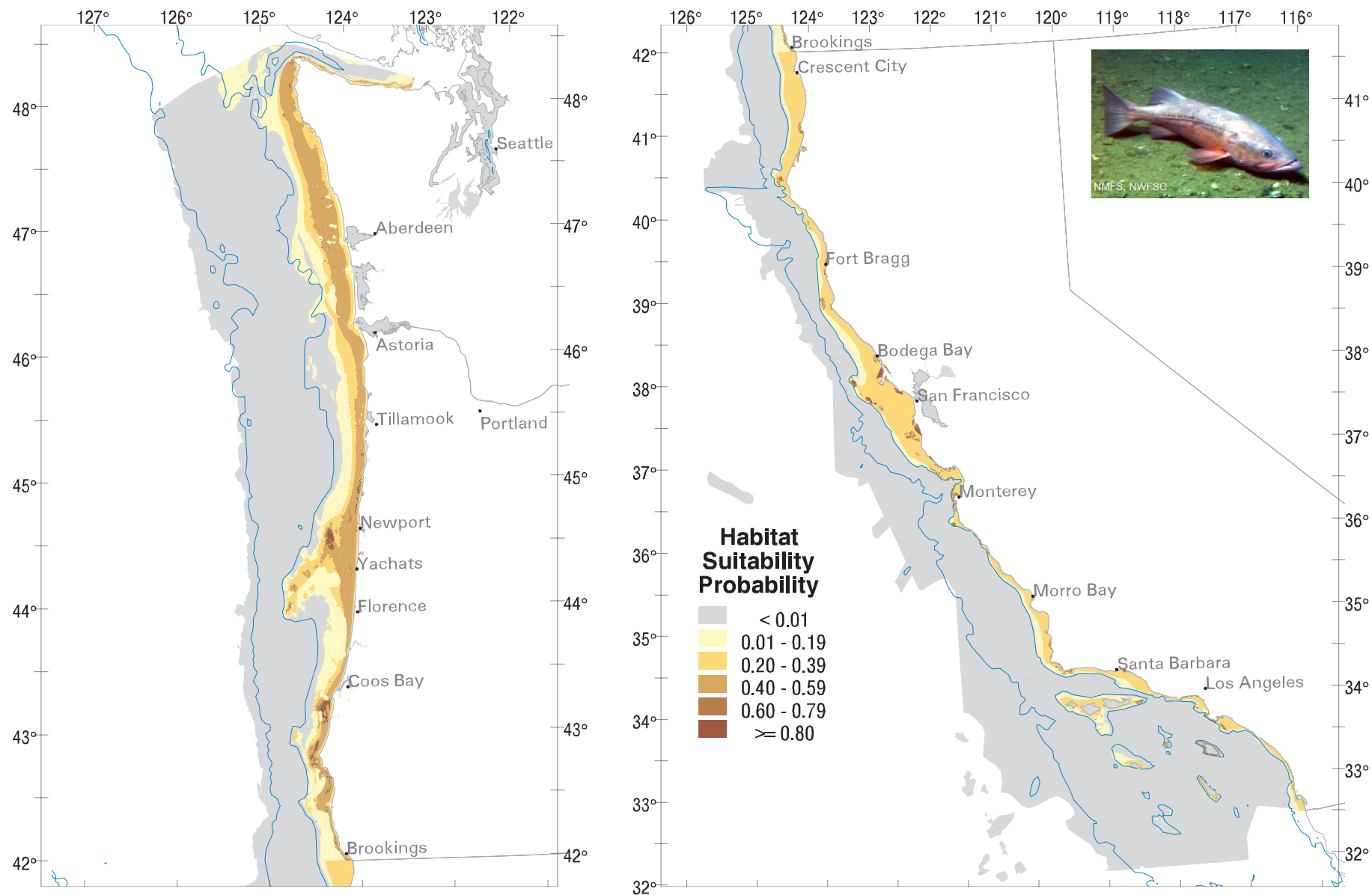


Blue Rockfish - Larvae



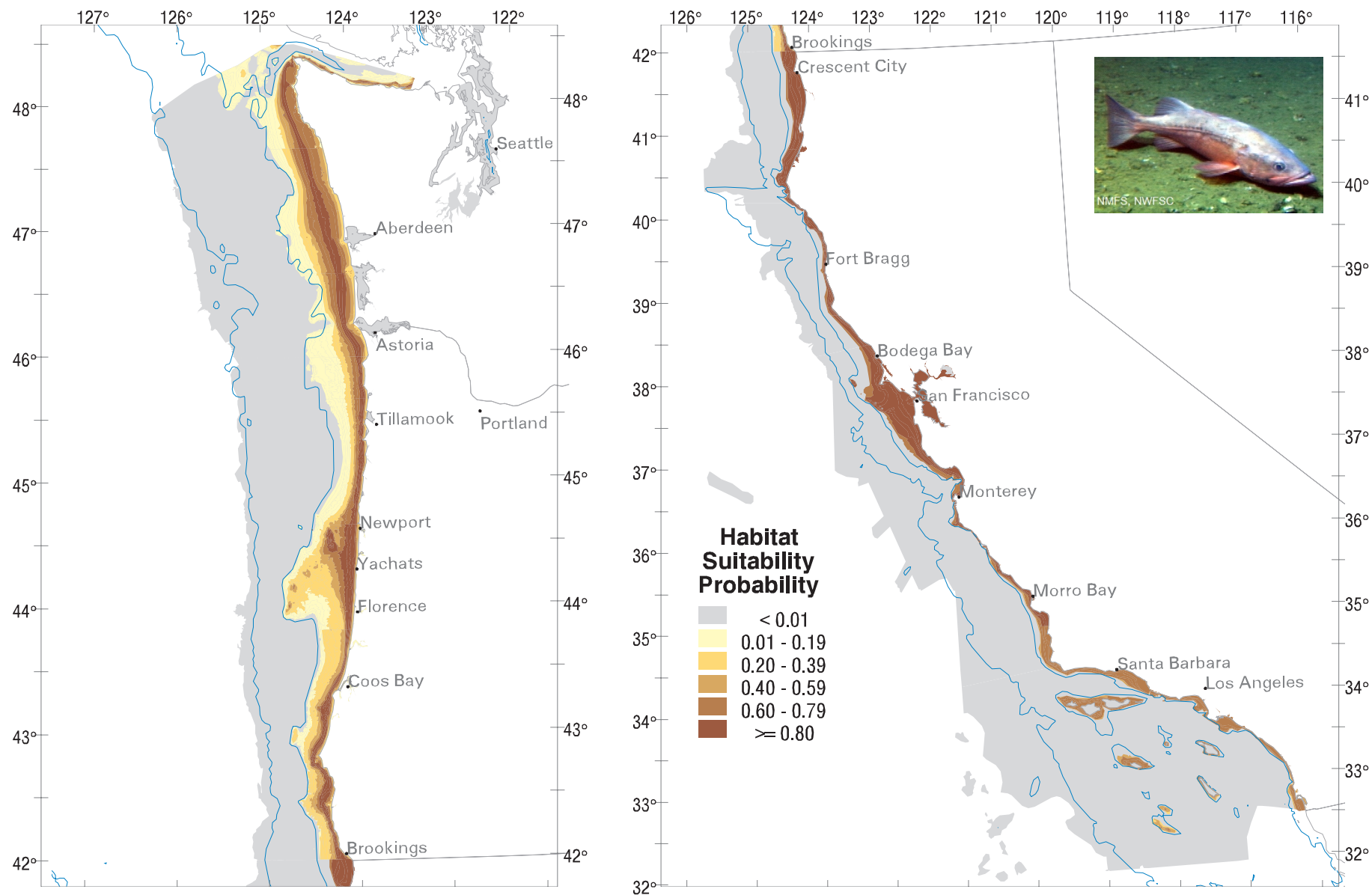
Bocaccio - Adult

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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey+*

Bocaccio - Juvenile

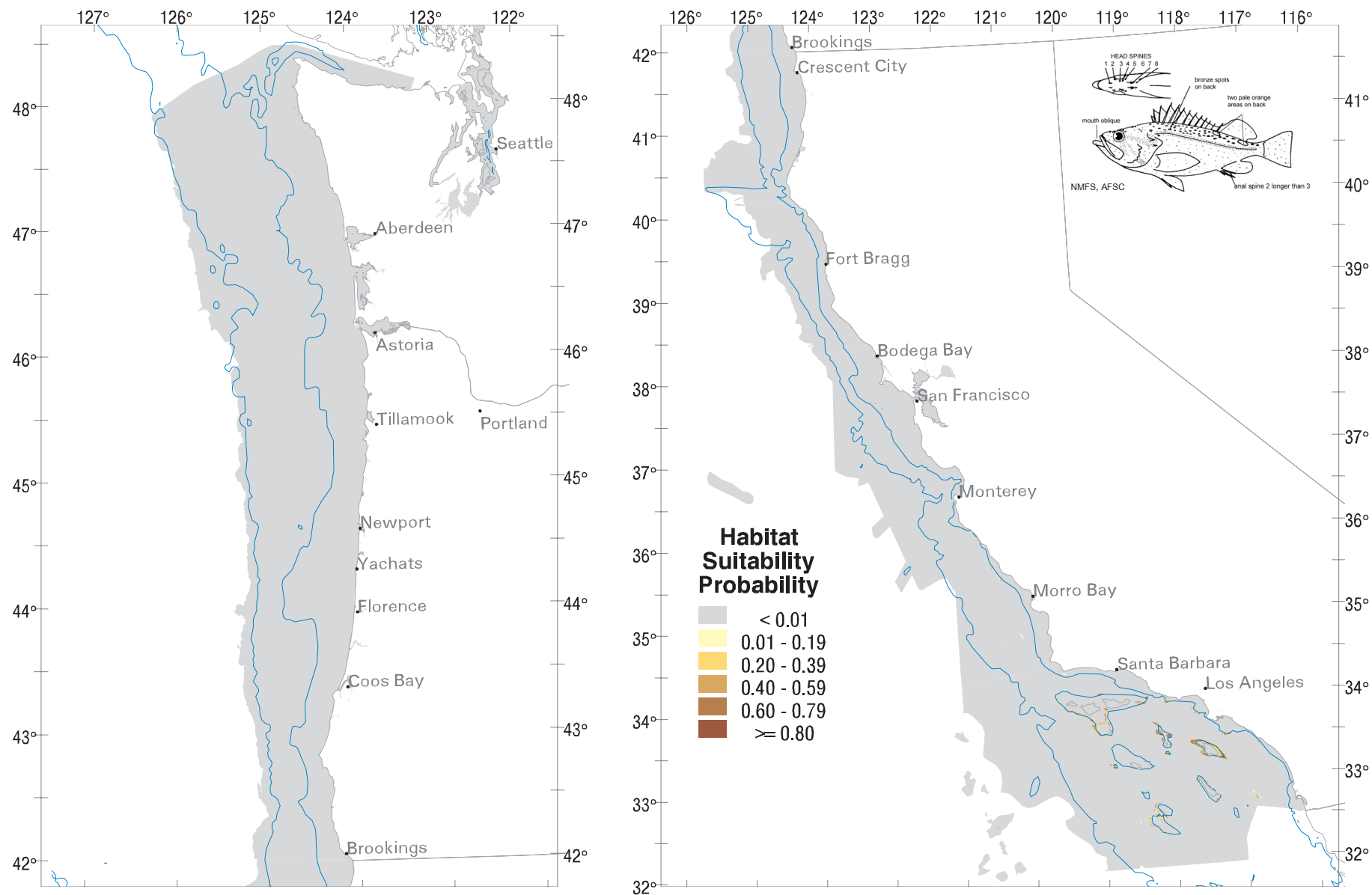
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Bocaccio - Larvae



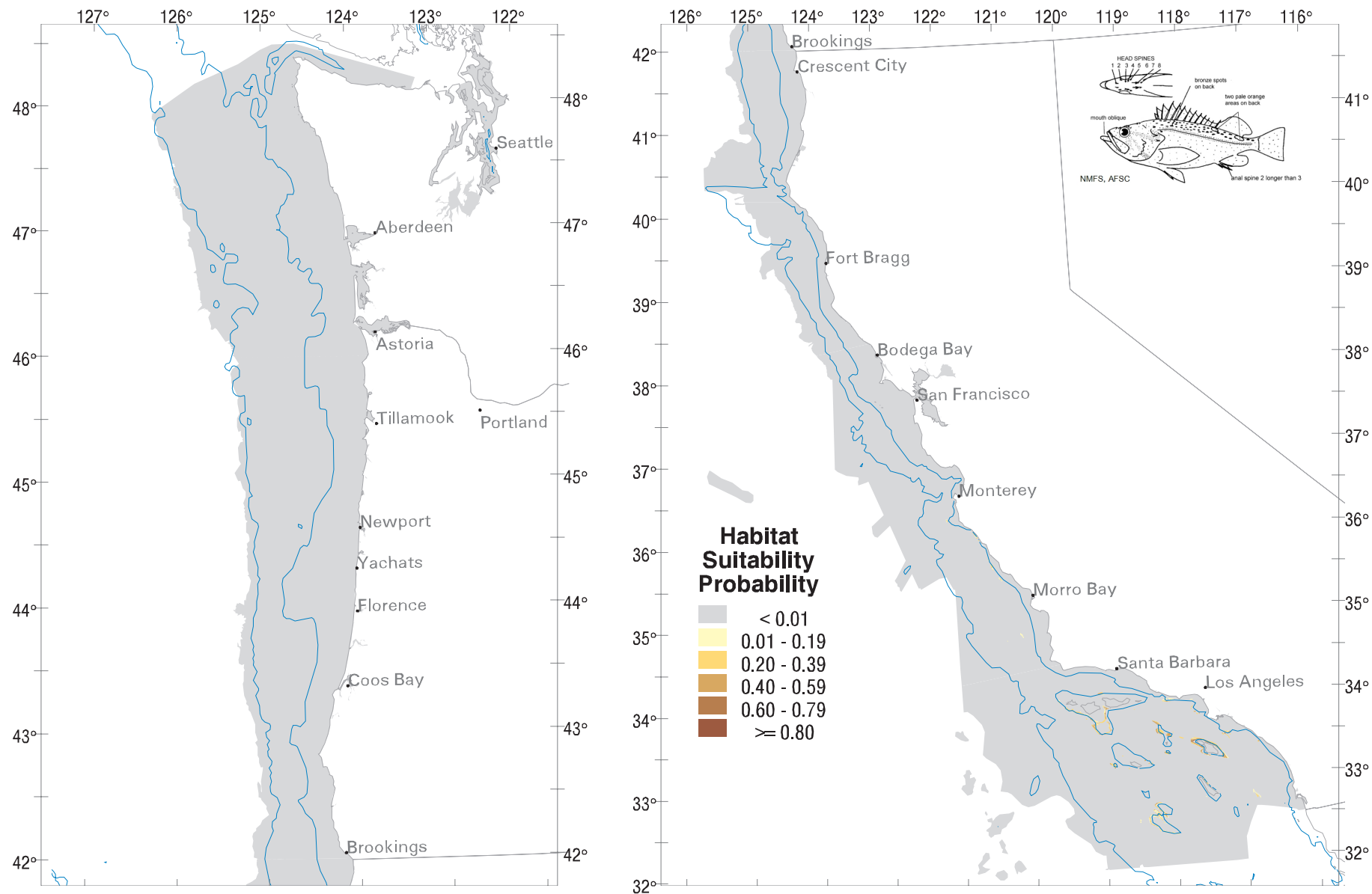
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Bronzespotted Rockfish - Adult



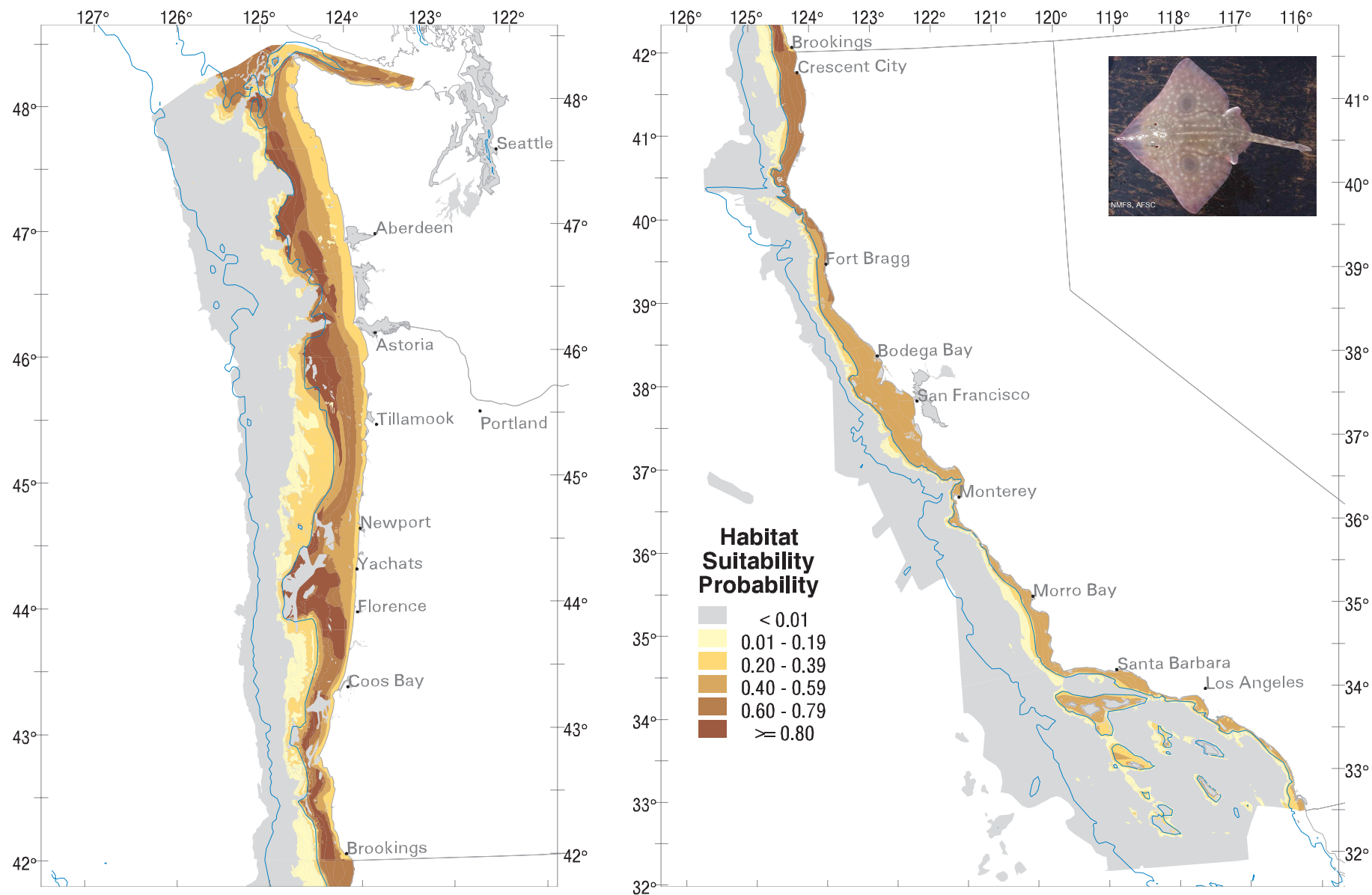
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Bronzespotted Rockfish - Juvenile



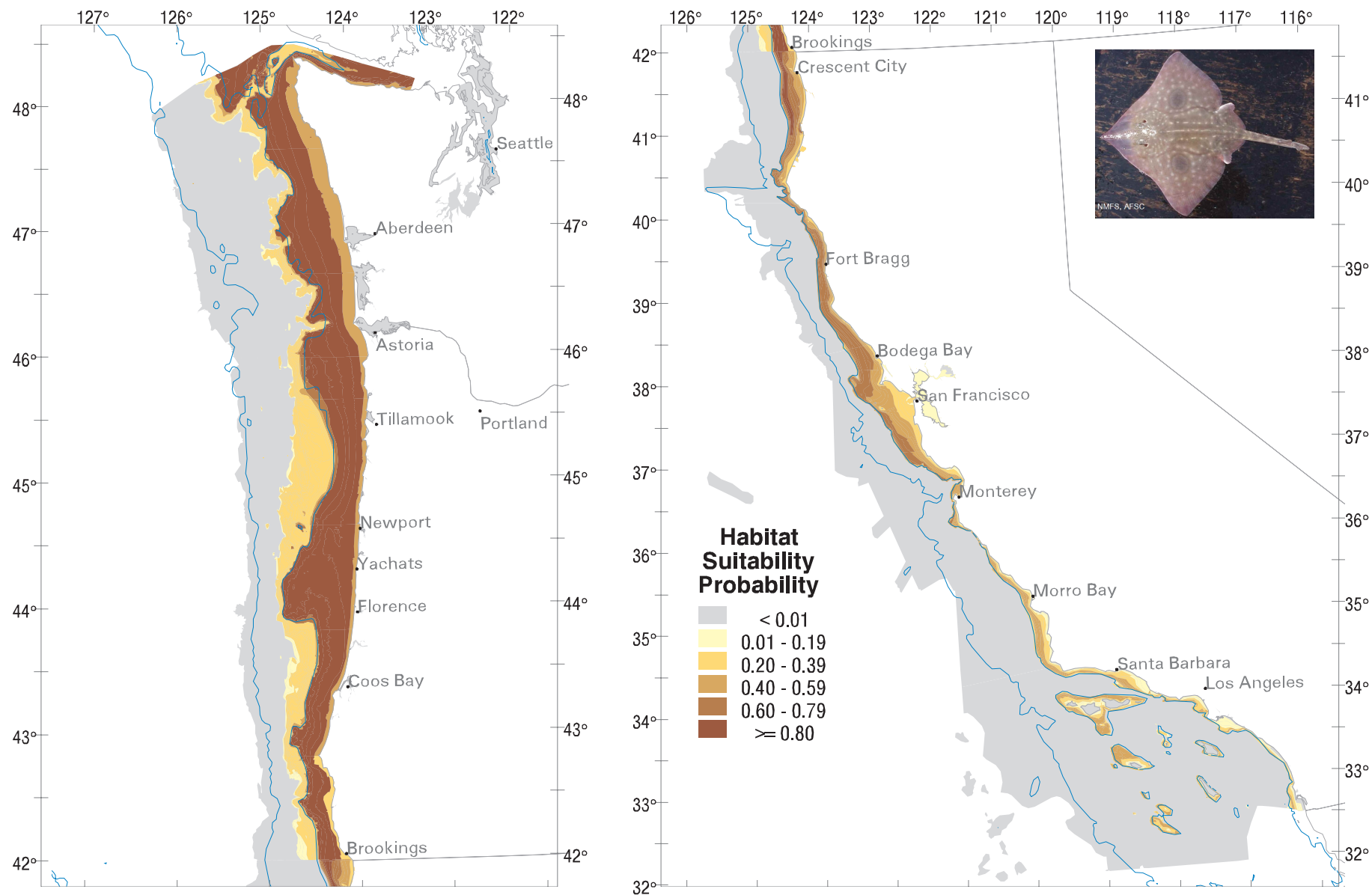
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Big Skate - Adult



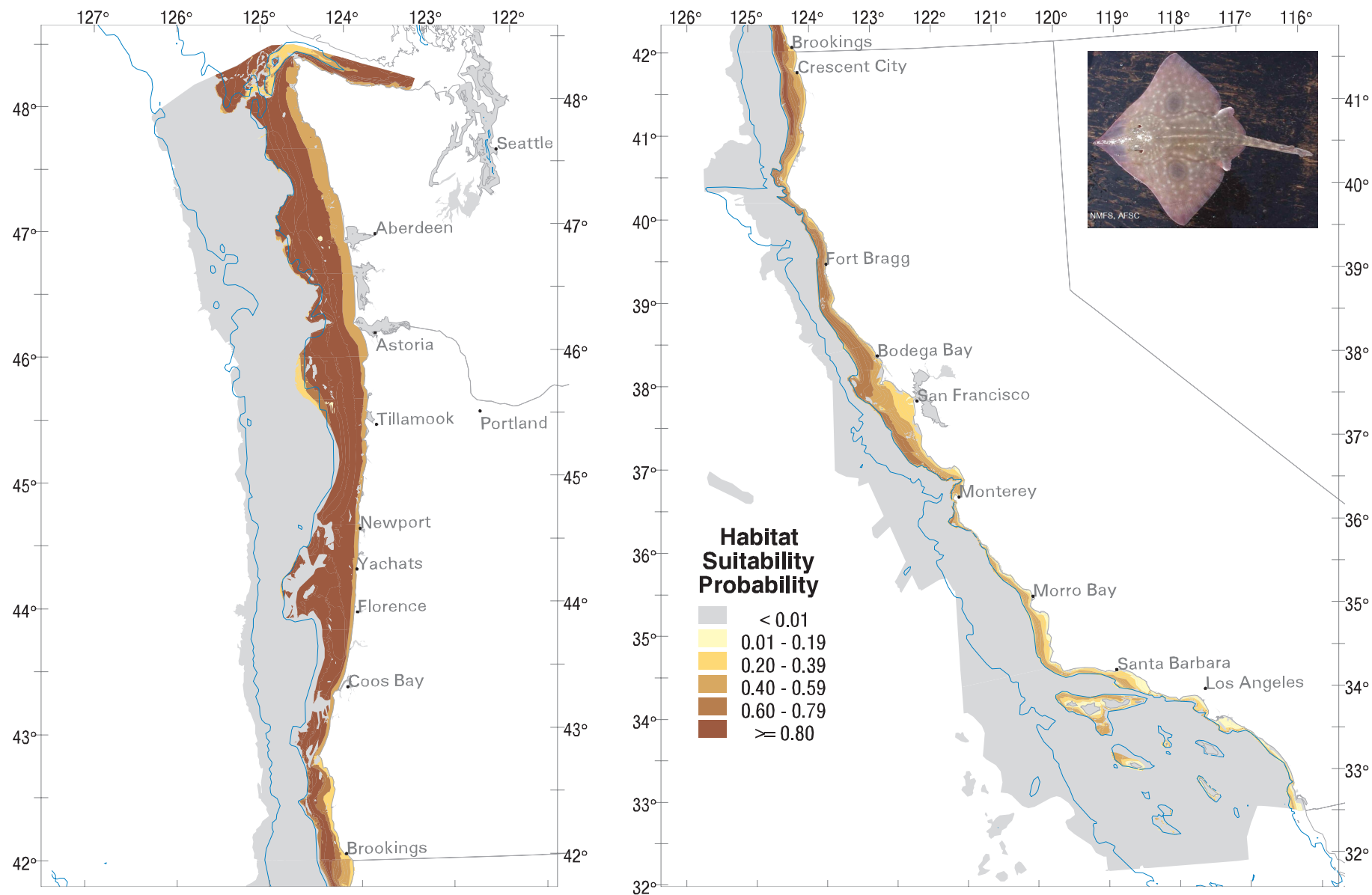
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Big Skate - Eggs

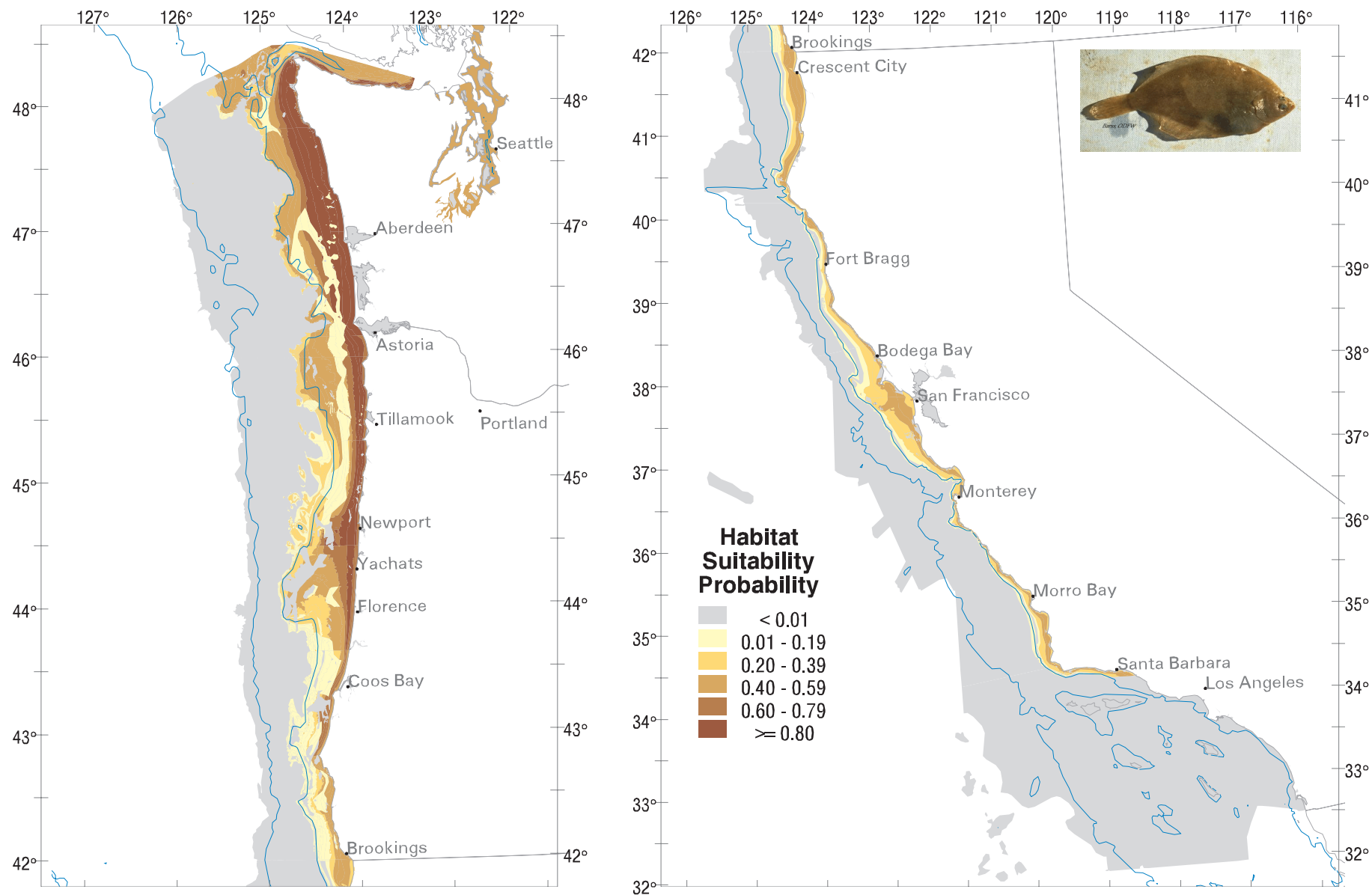


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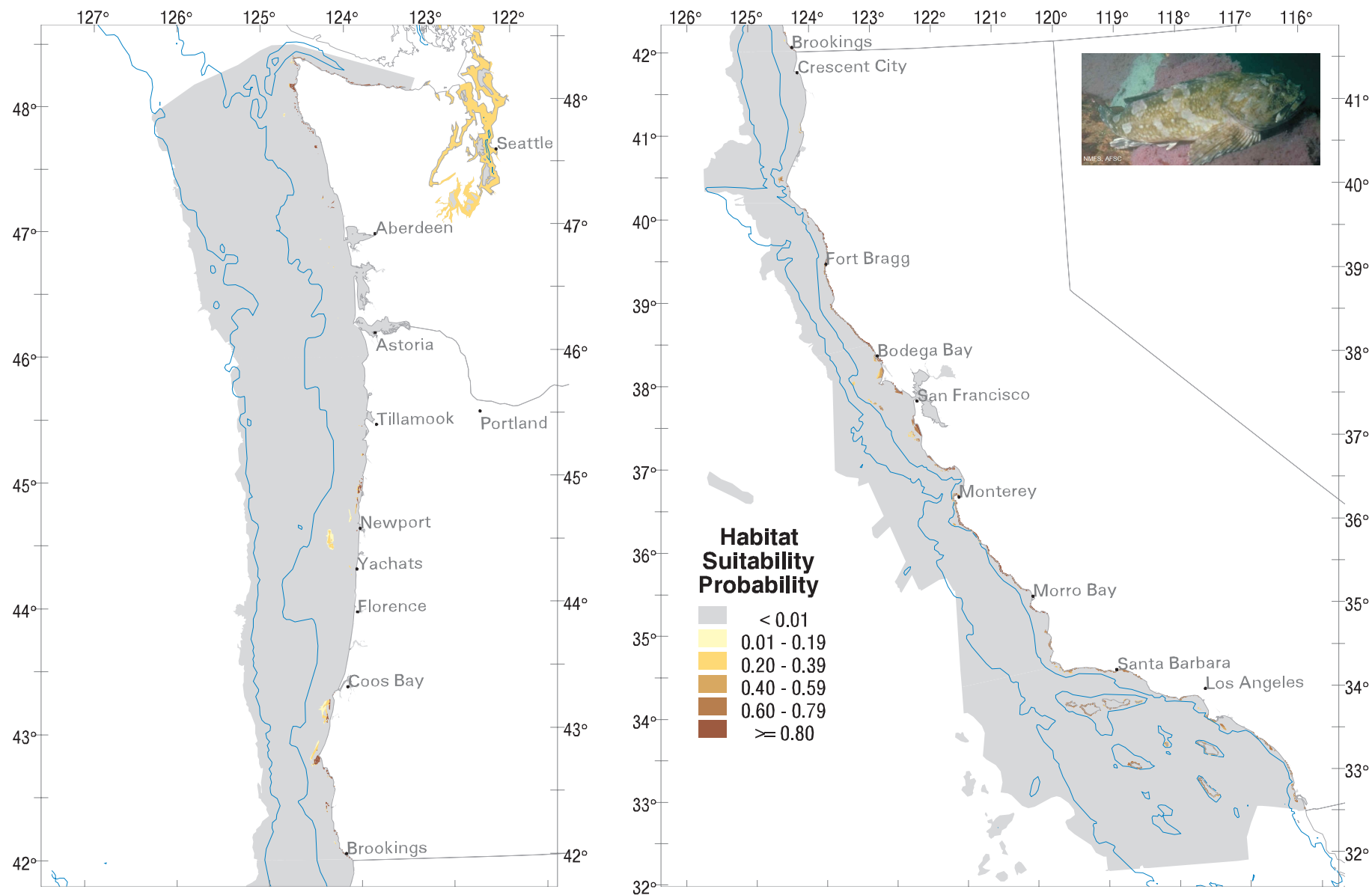
Big Skate - Juvenile



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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

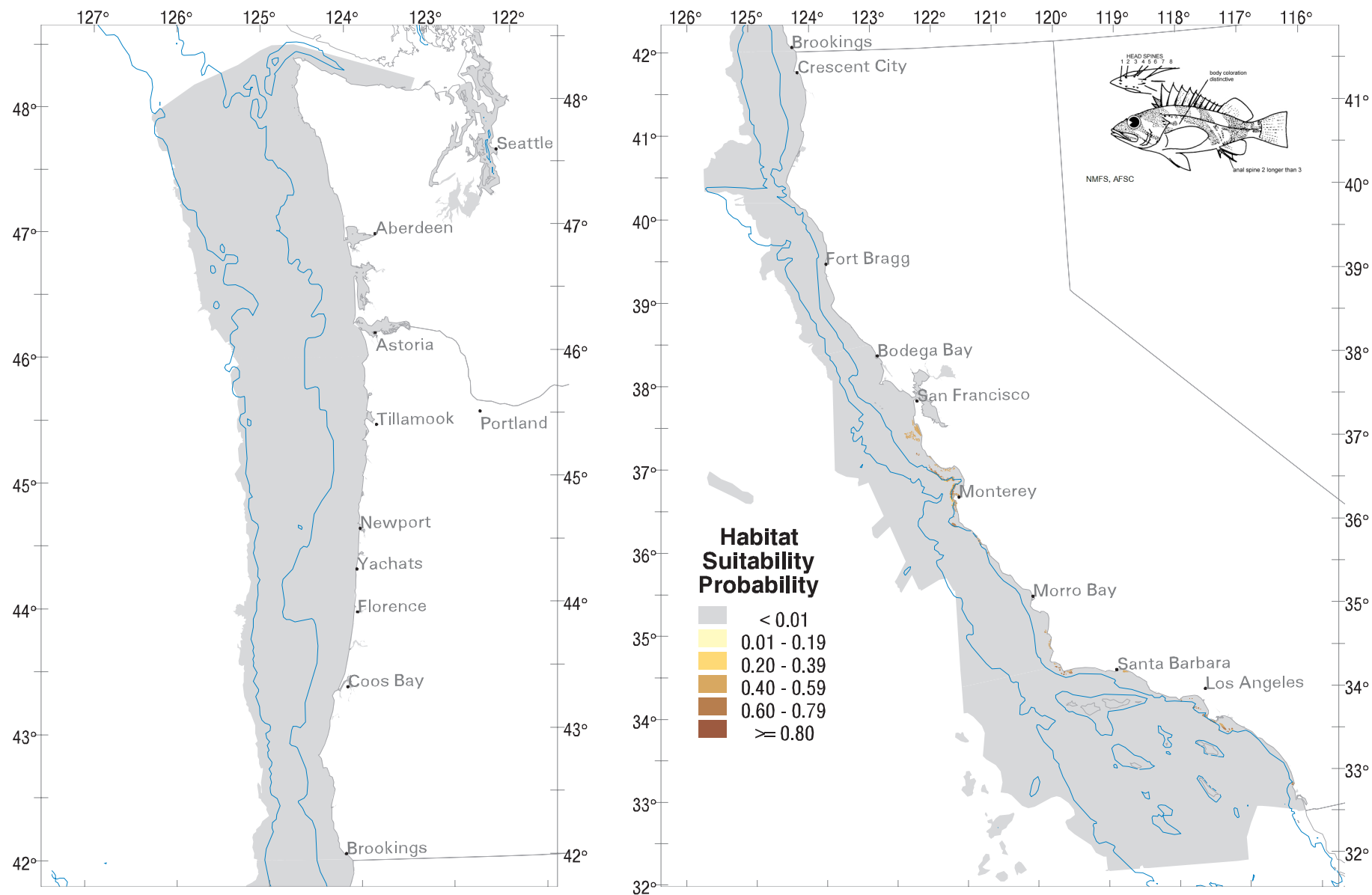
Butter Sole - Adult

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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Cabezon - Adult

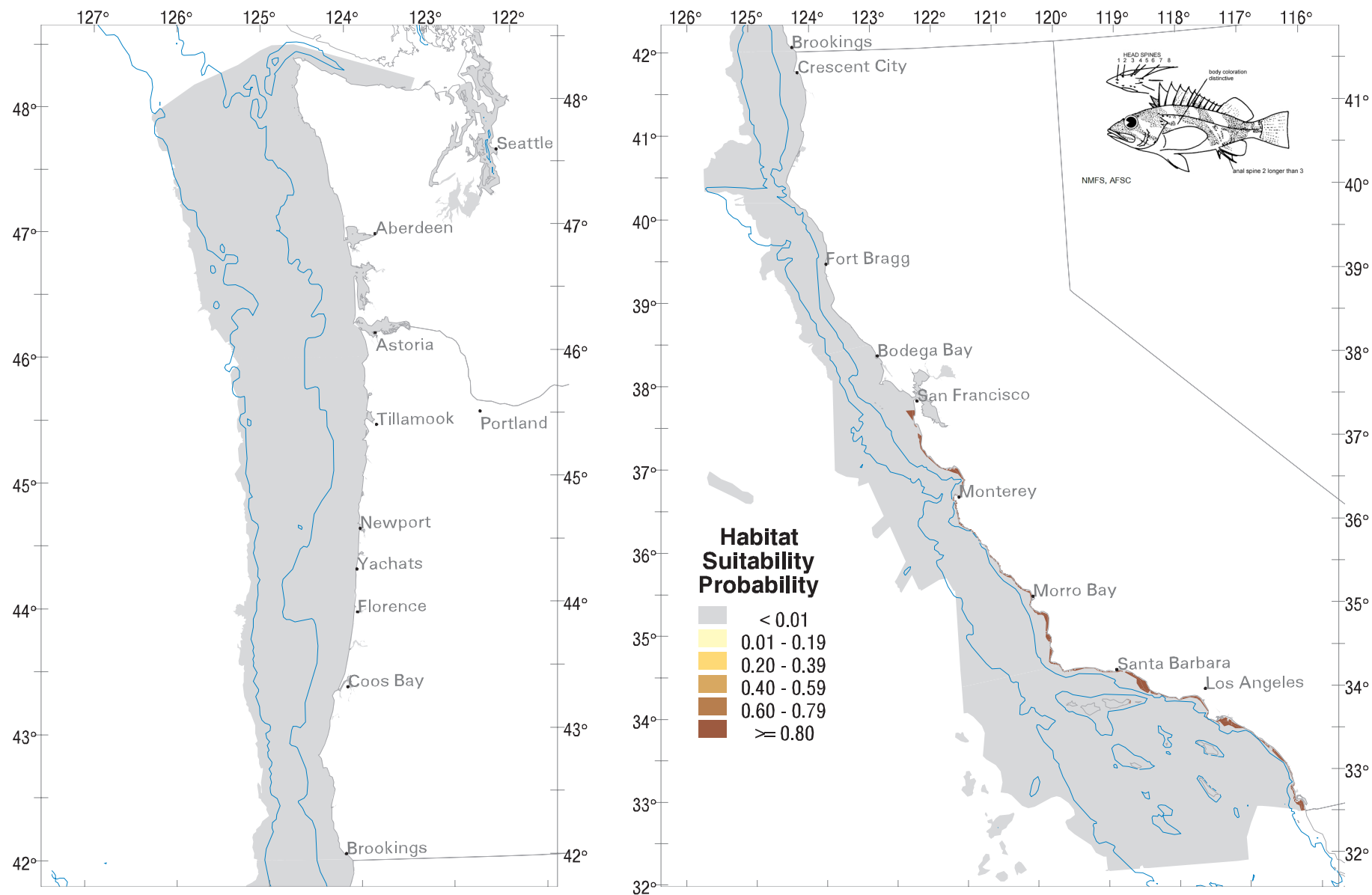
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Calico Rockfish - Adult



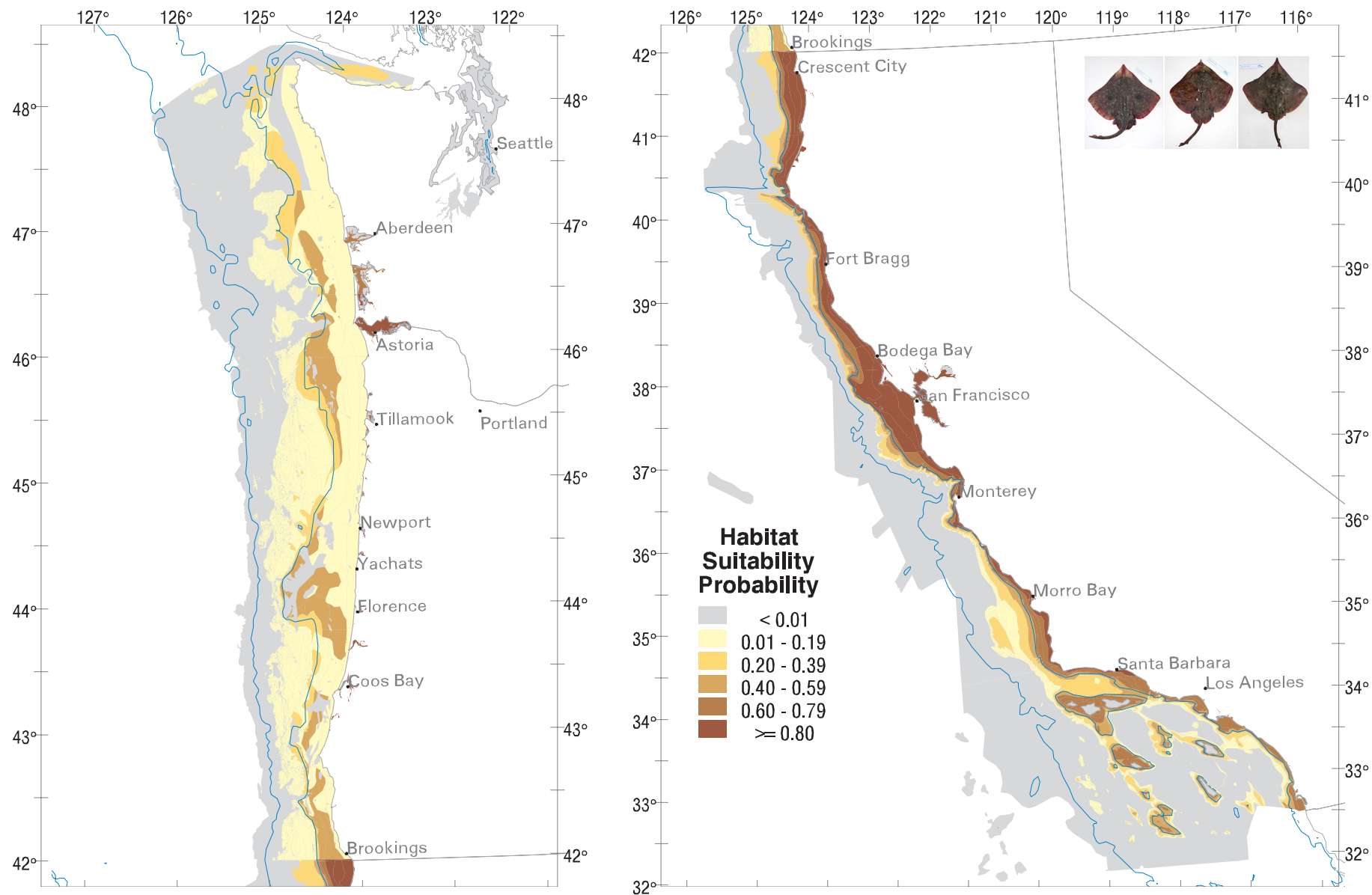
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Calico Rockfish - Juvenile



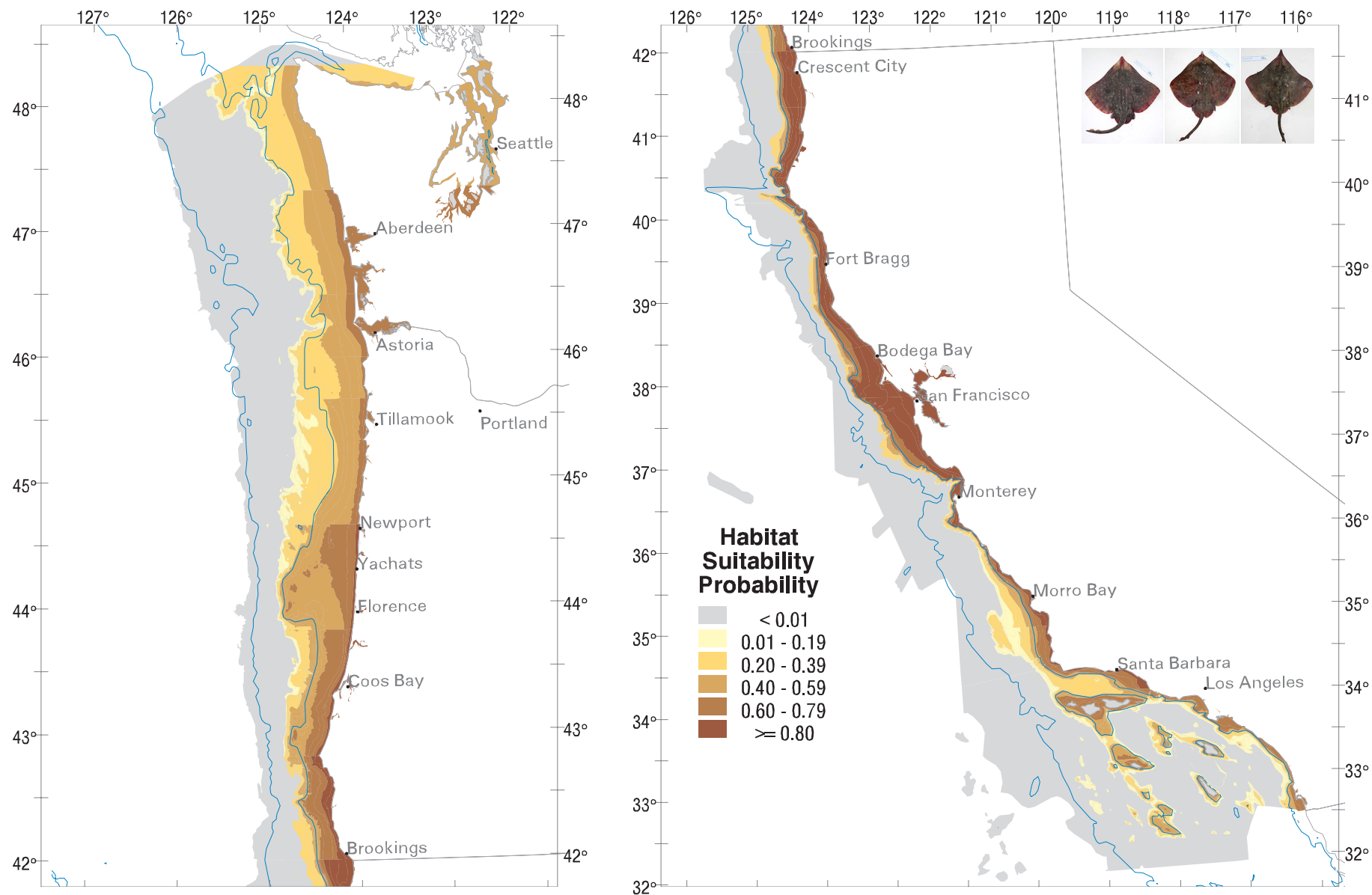
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California Skate - Adult



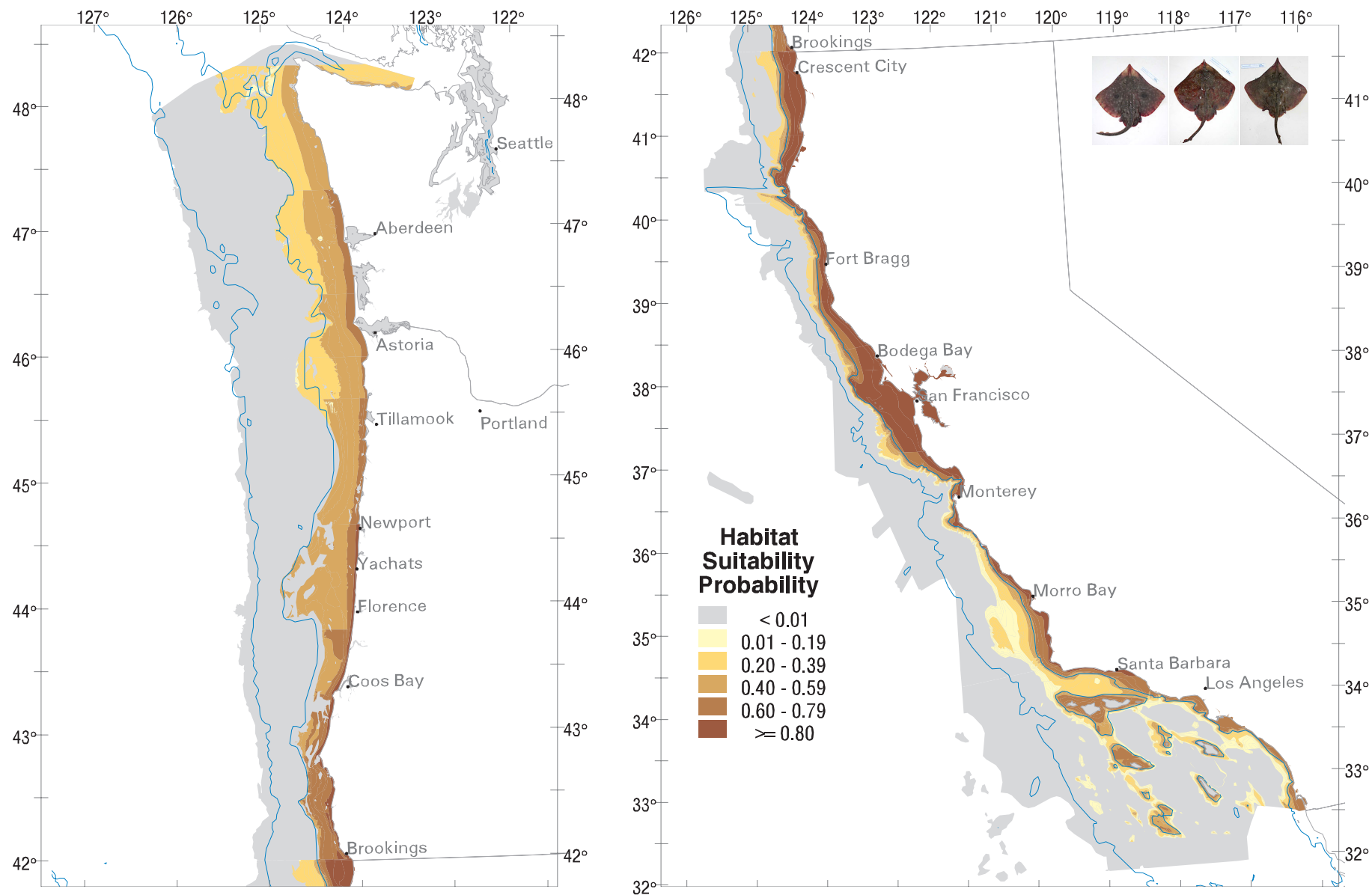
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California Skate - Eggs



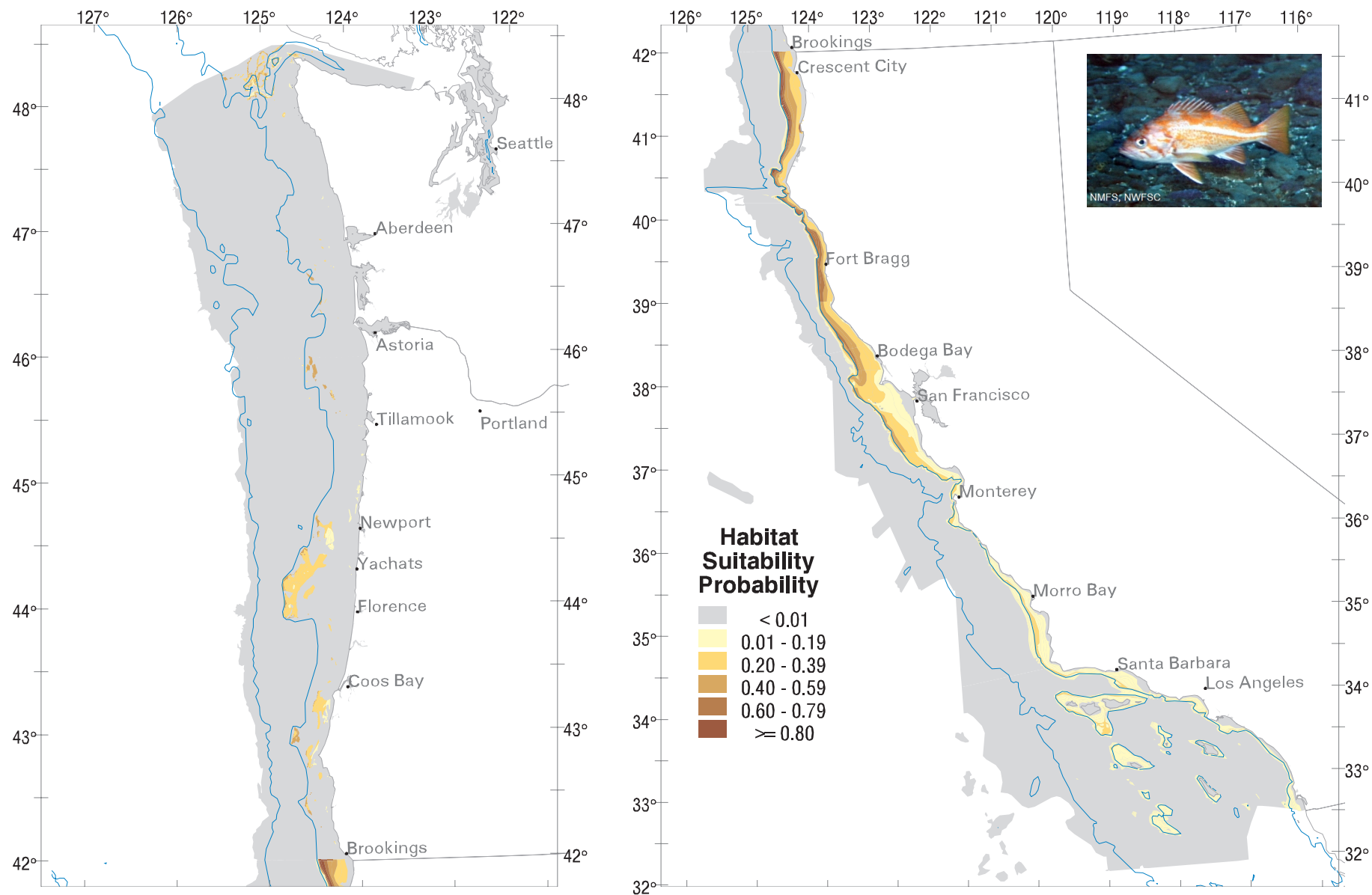
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California Skate - Juvenile



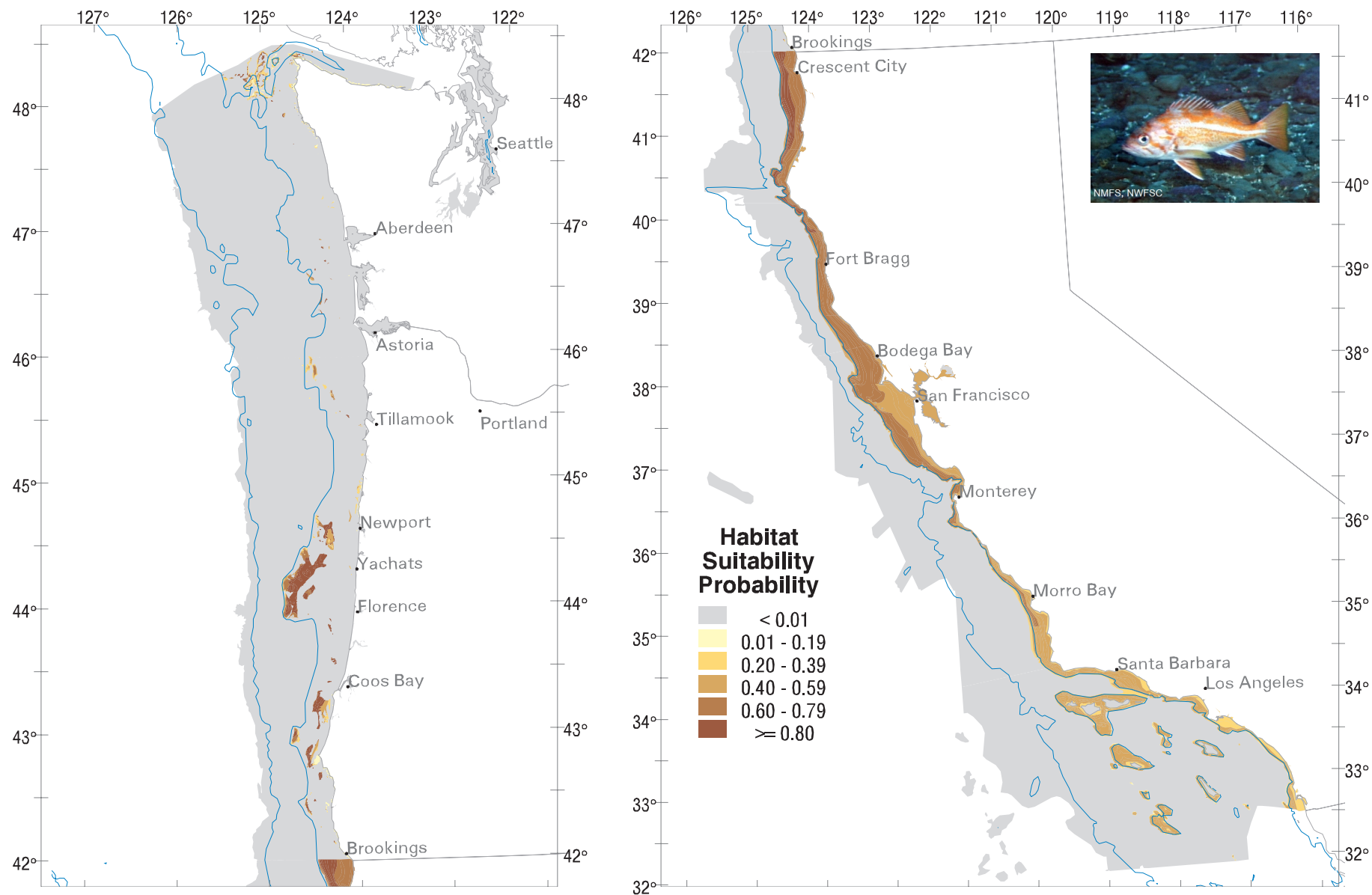
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Canary Rockfish - Adult



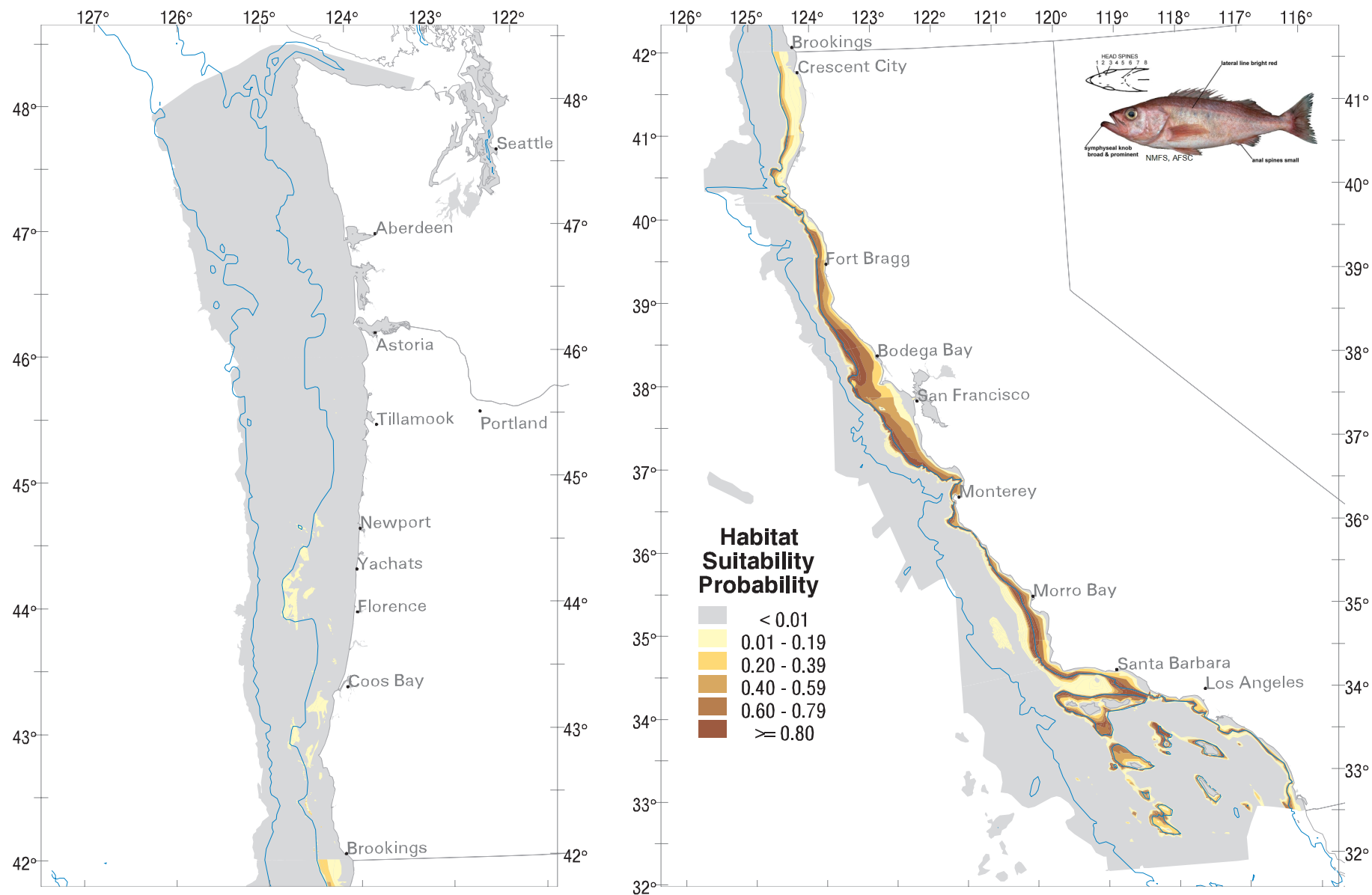
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey+

Canary Rockfish - Juvenile



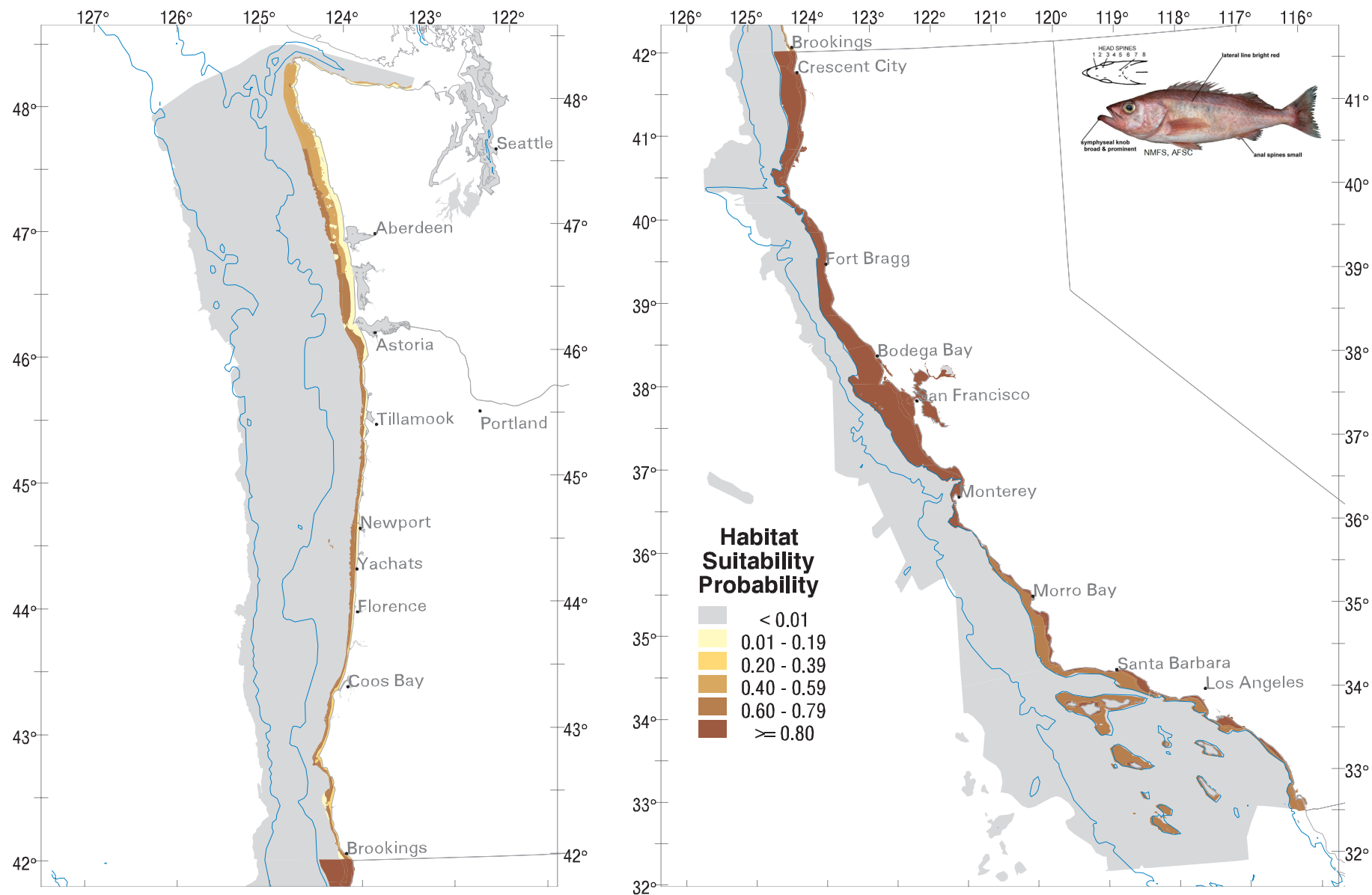
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Chilipepper - Adult



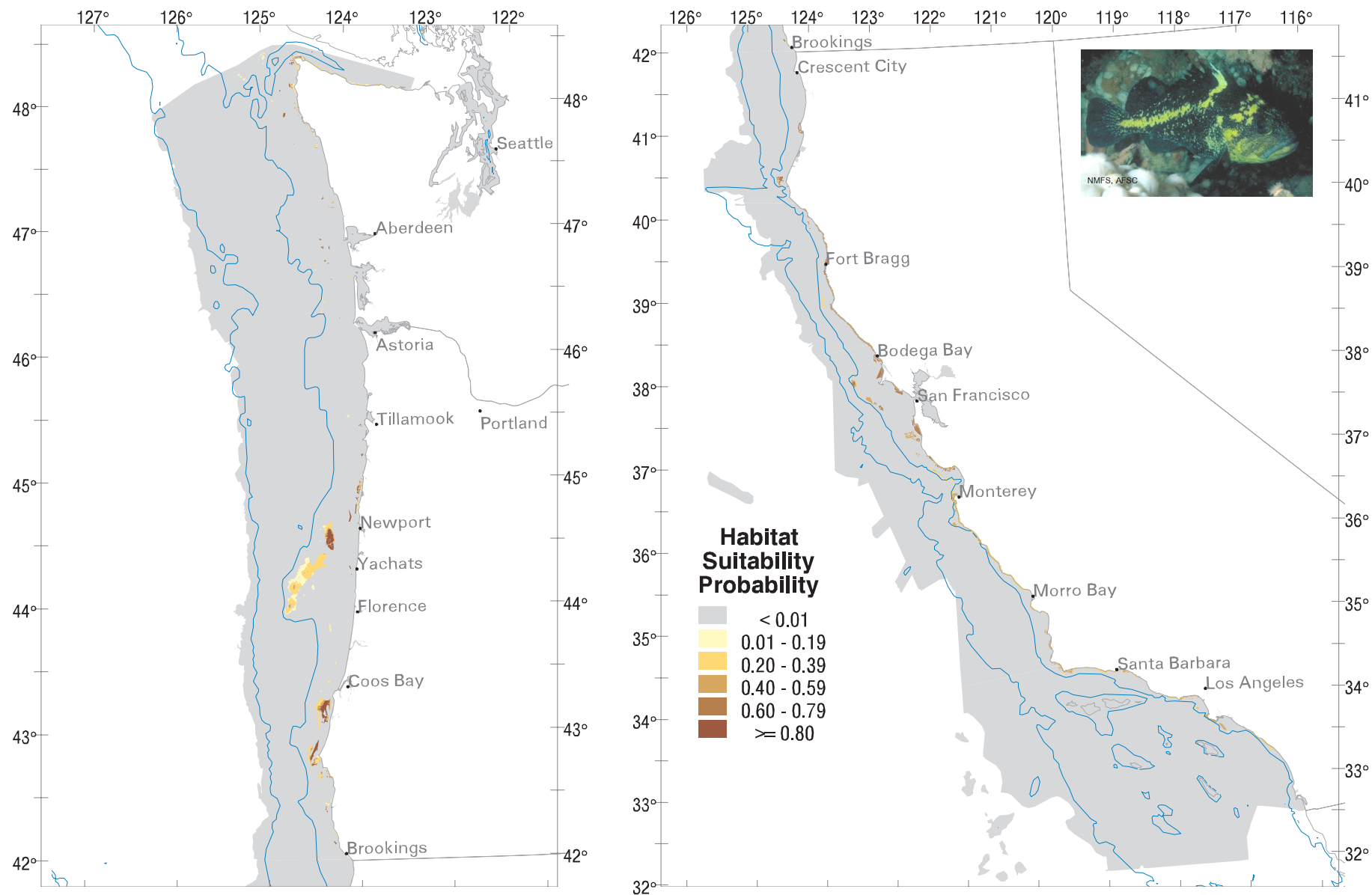
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Chilipepper - Juvenile

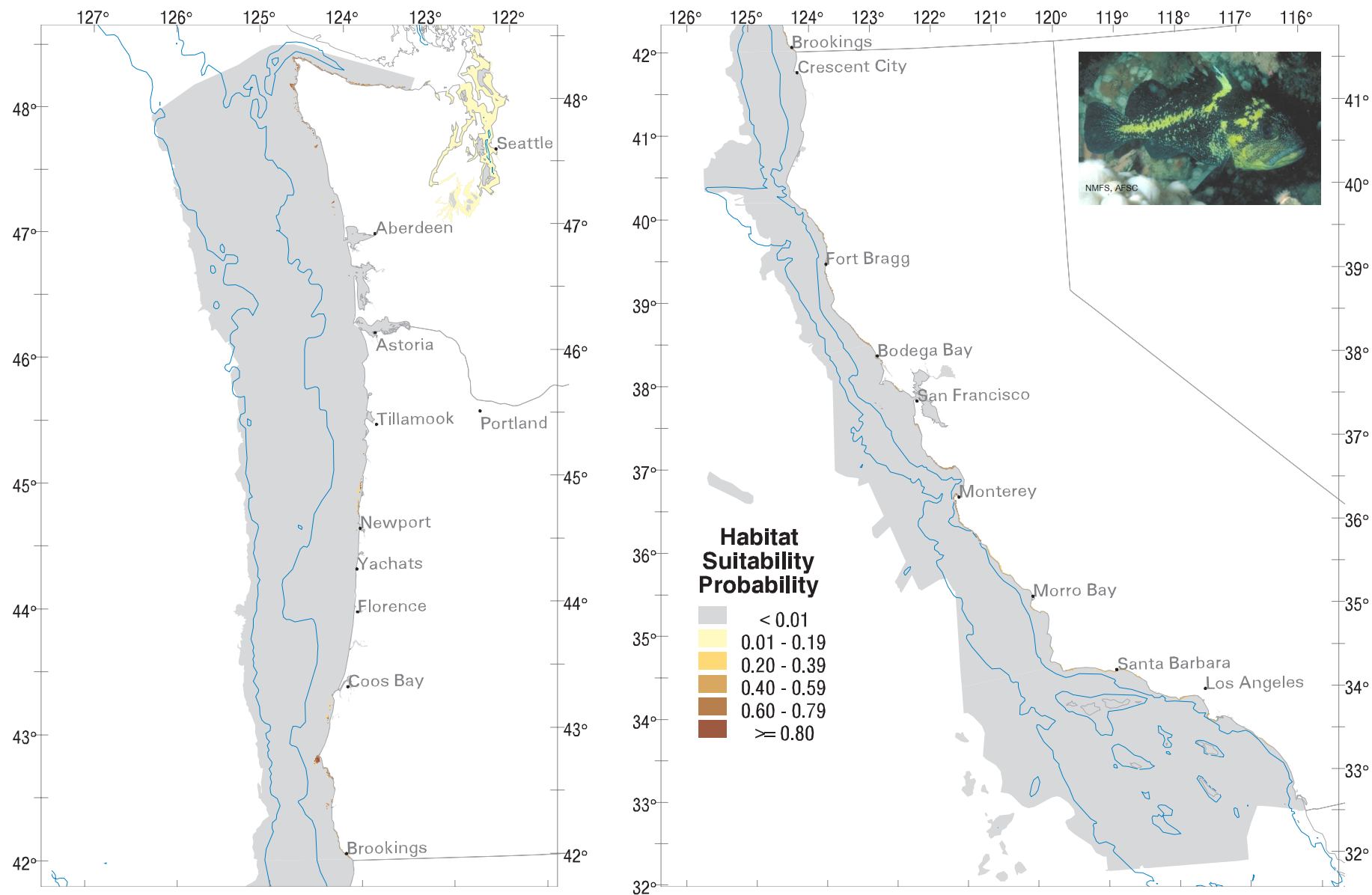


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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

China Rockfish - Adult

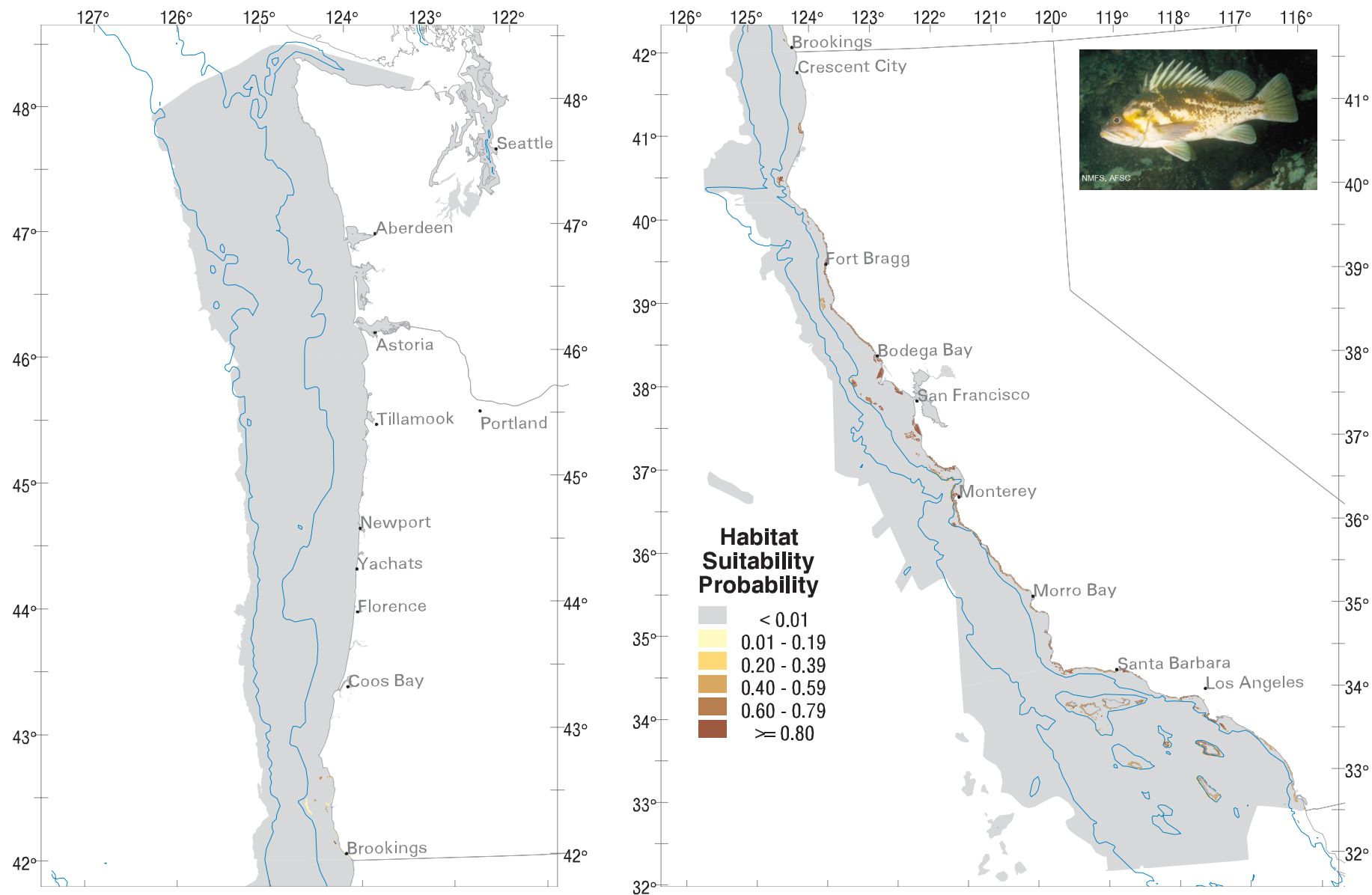


China Rockfish - Juvenile



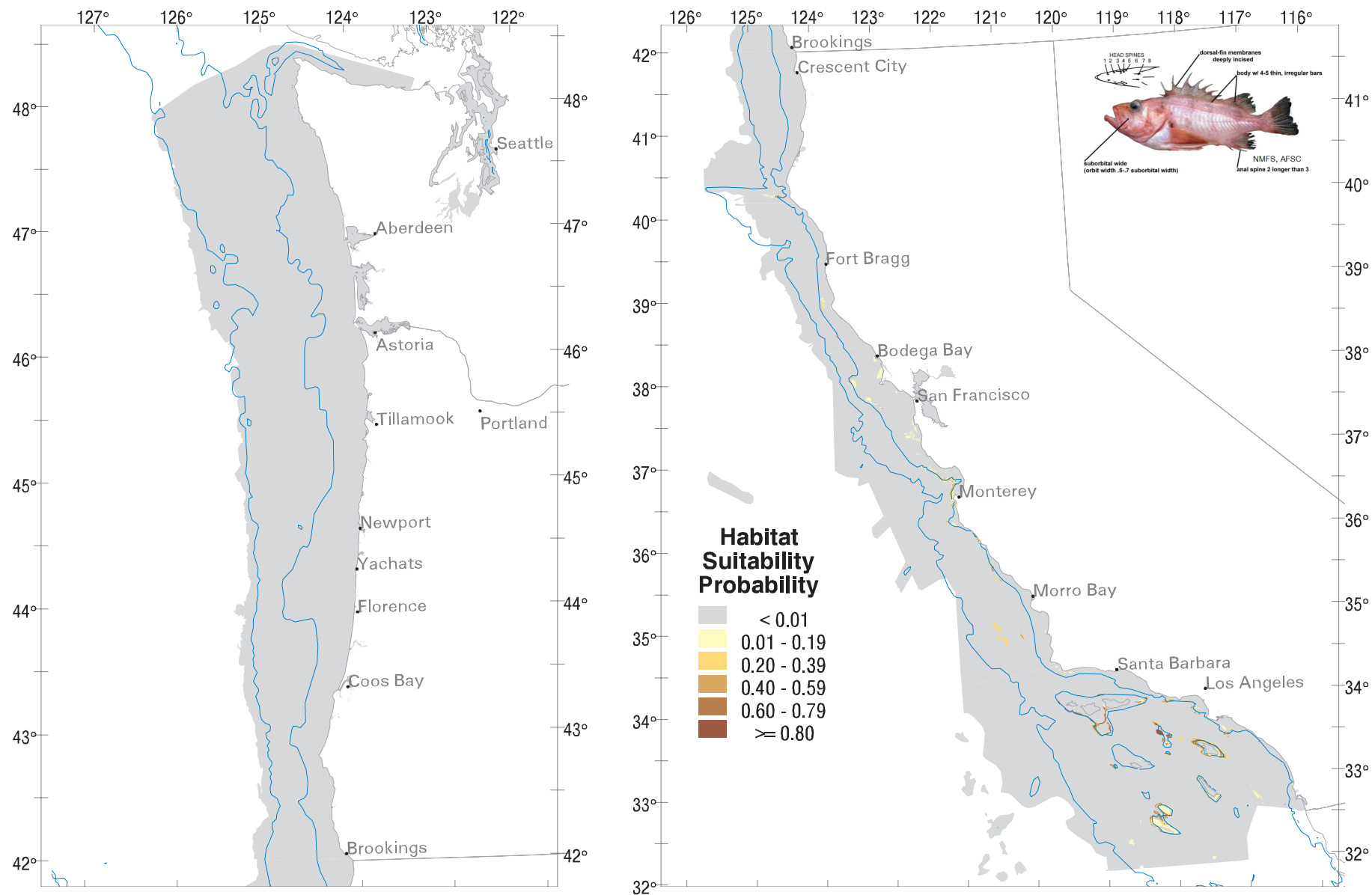
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Copper Rockfish - Adult



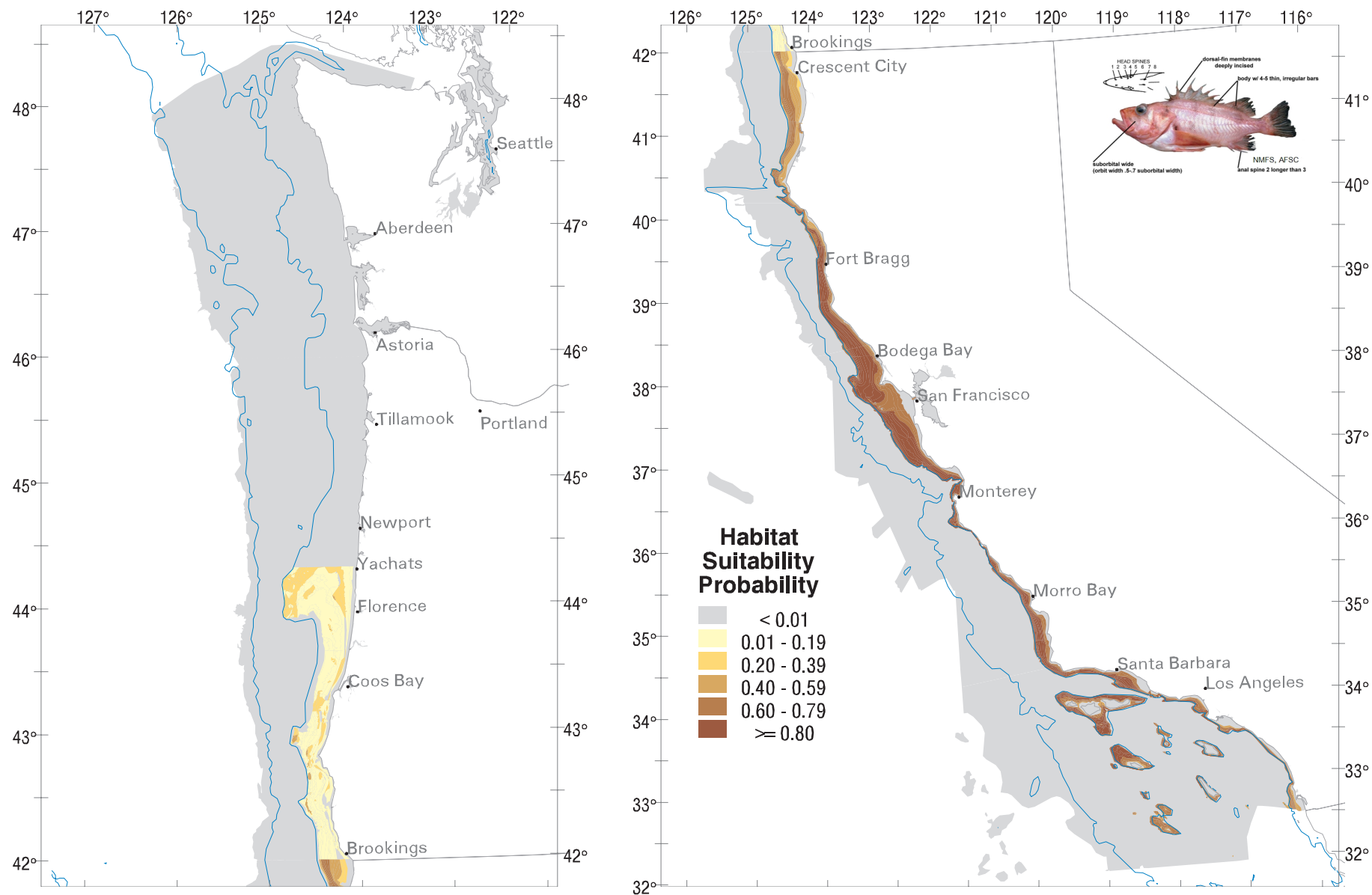
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Cowcod - Adult



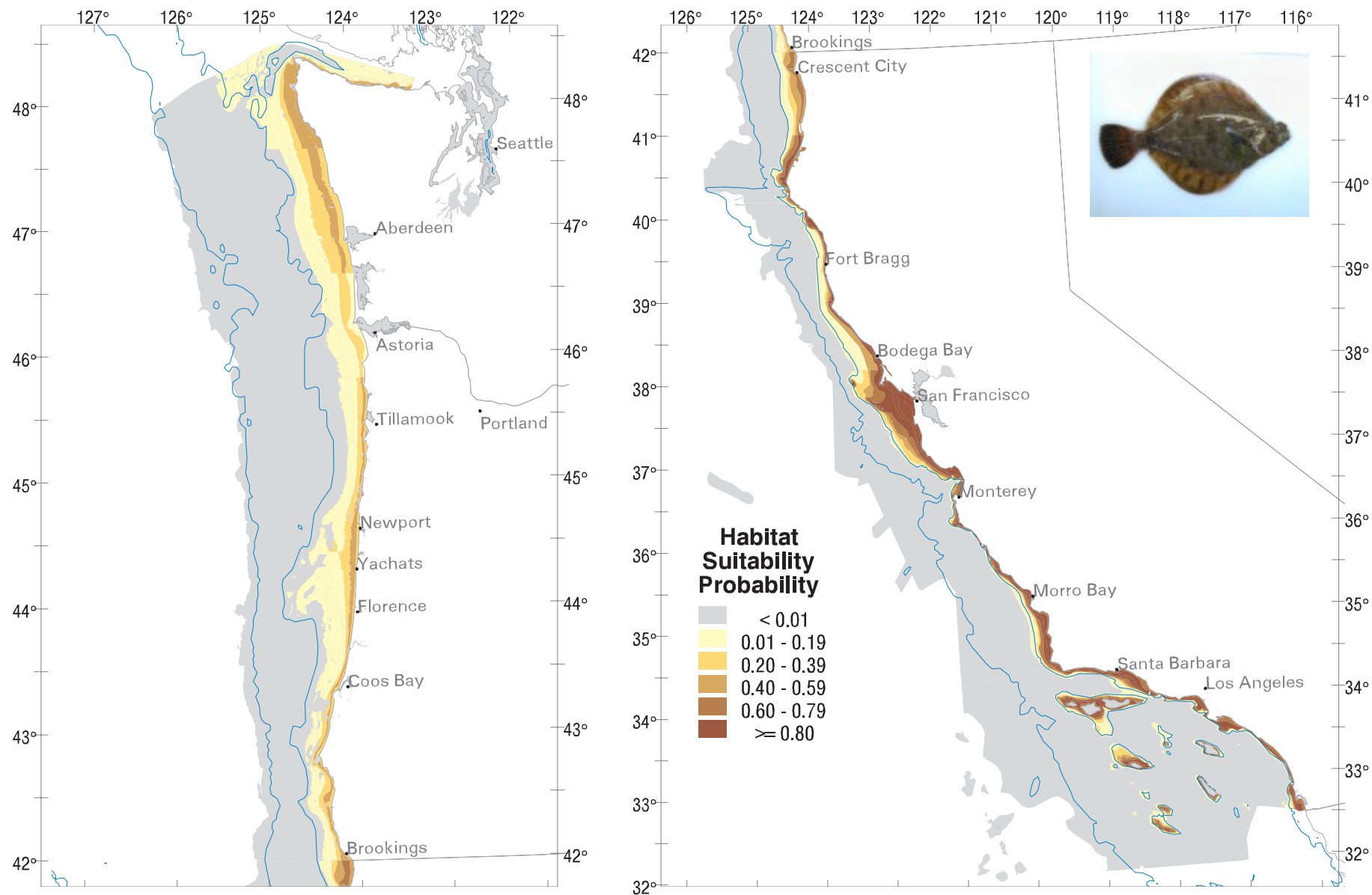
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Cowcod - Juvenile



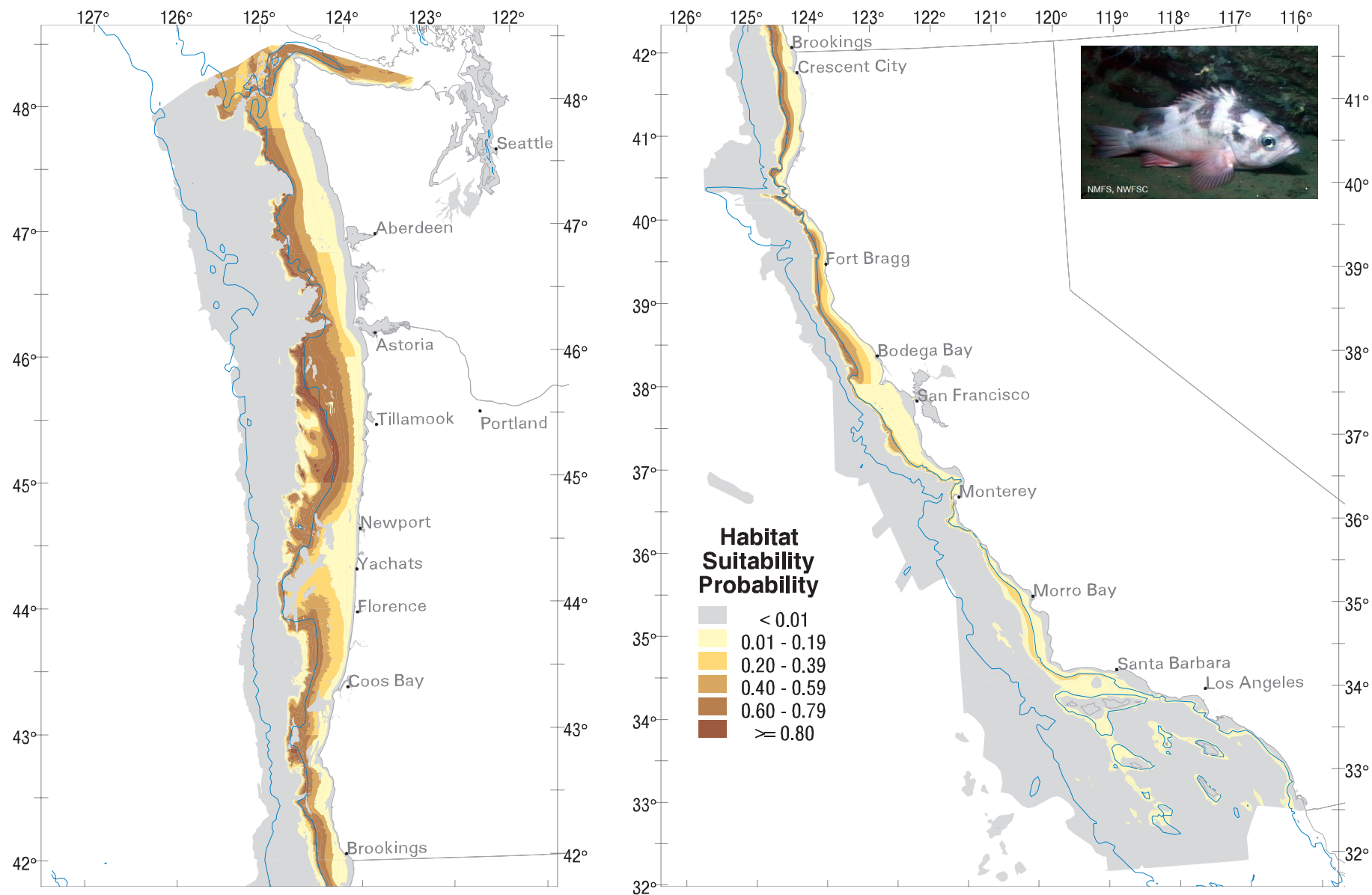
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Curlfin Sole - Adult



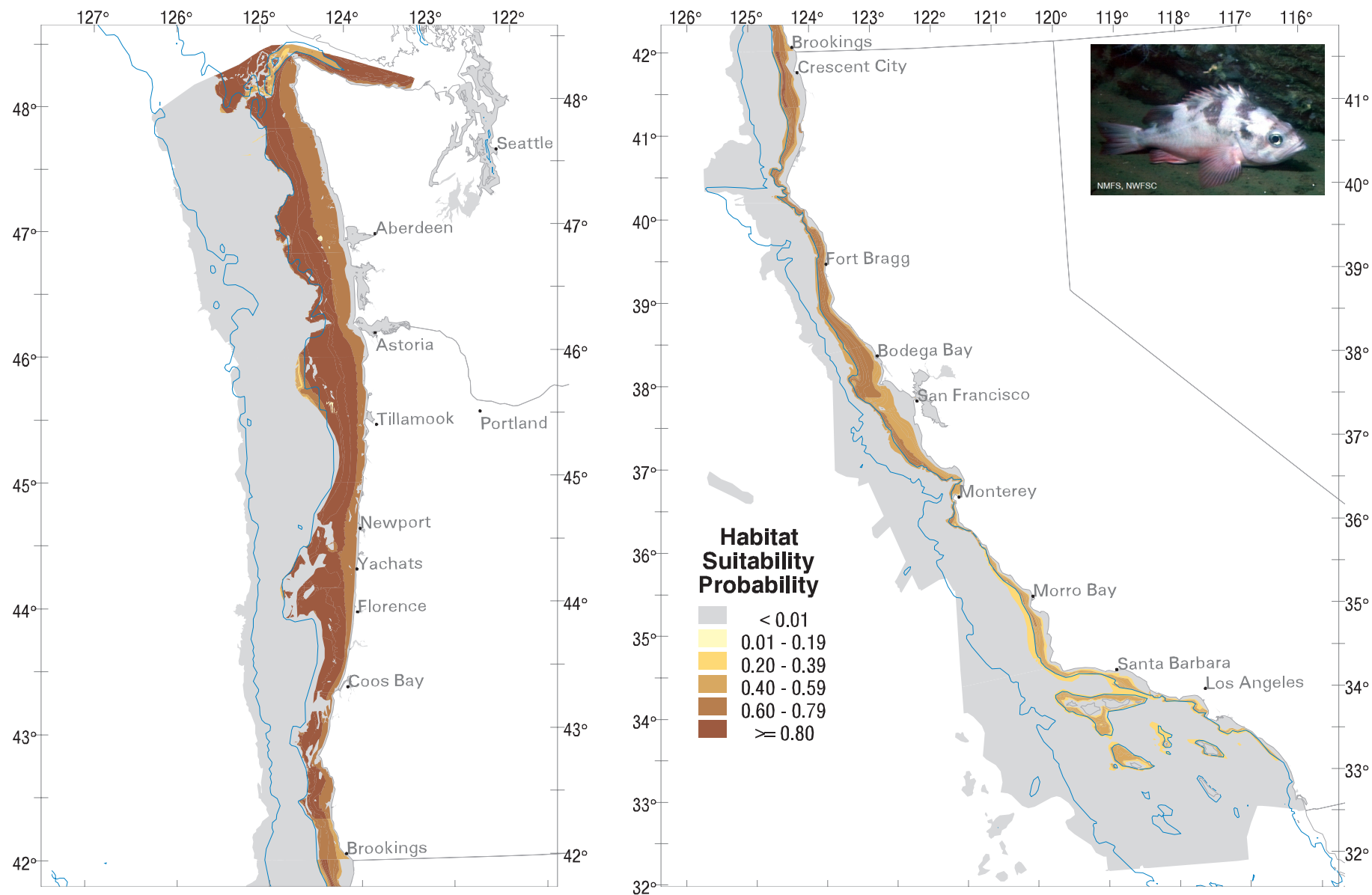
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Darkblotched Rockfish - Adult



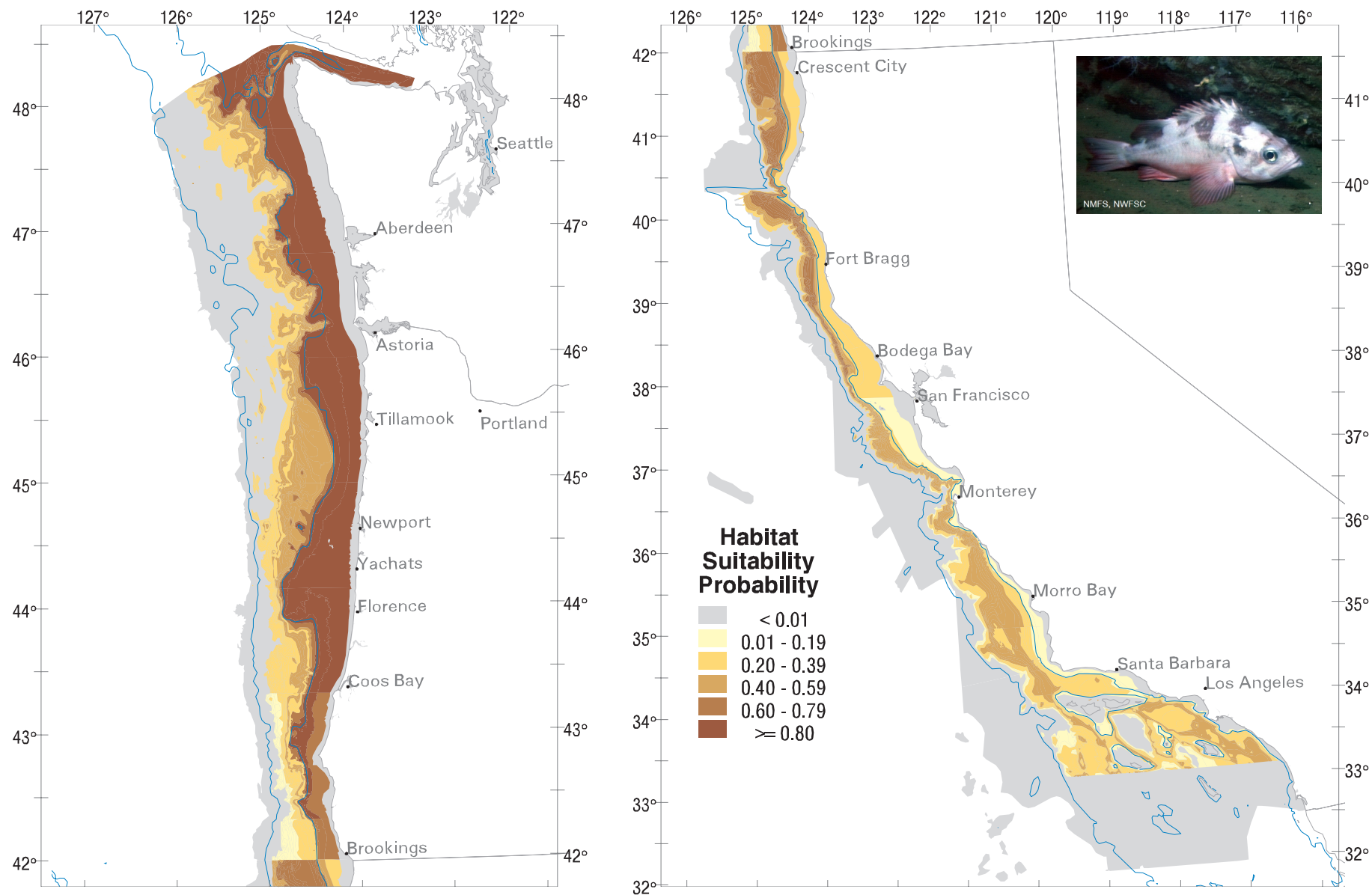
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Darkblotched Rockfish - Juvenile



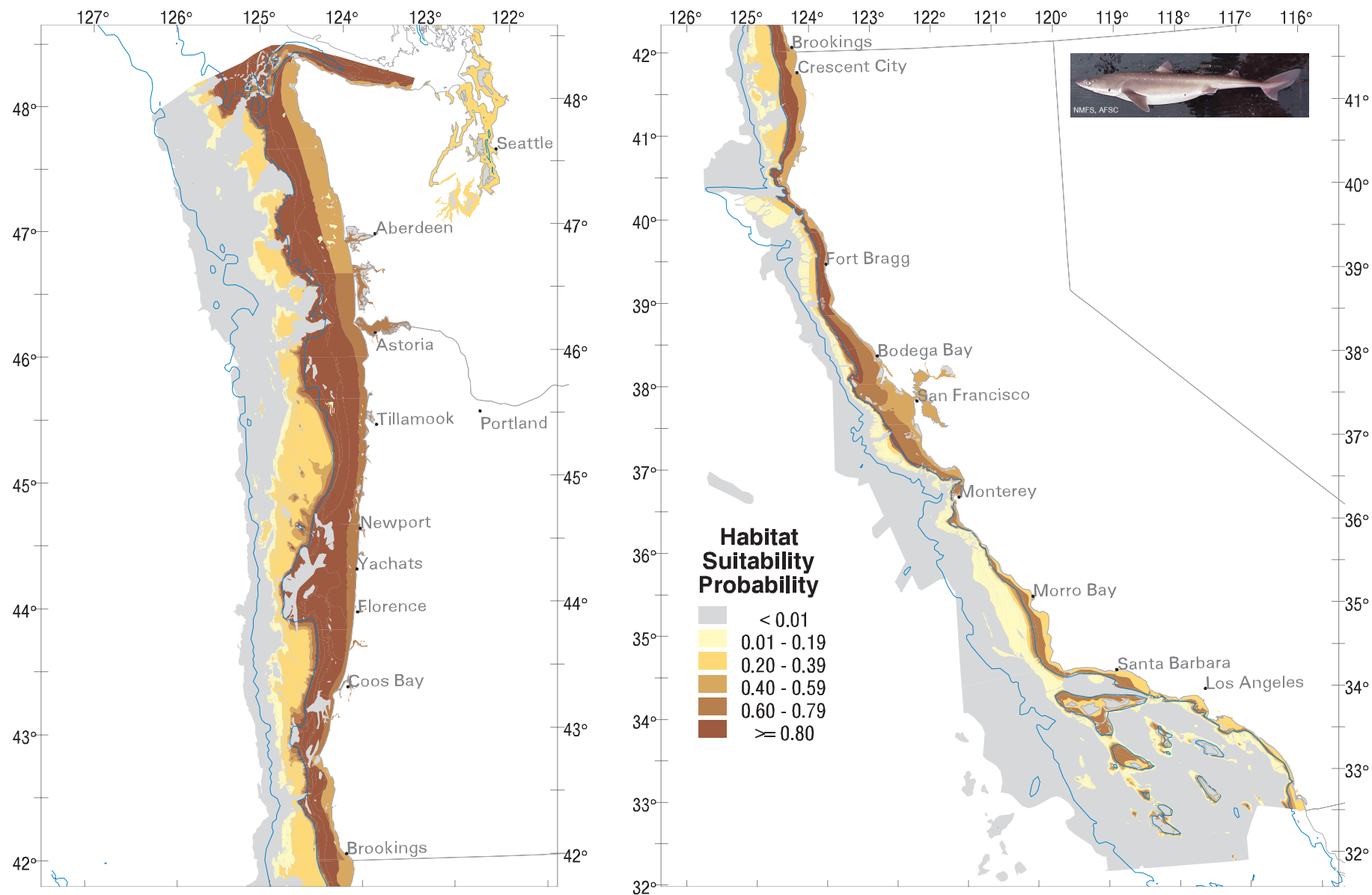
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: 'HUD & Survey'*

Darkblotched Rockfish - Larvae



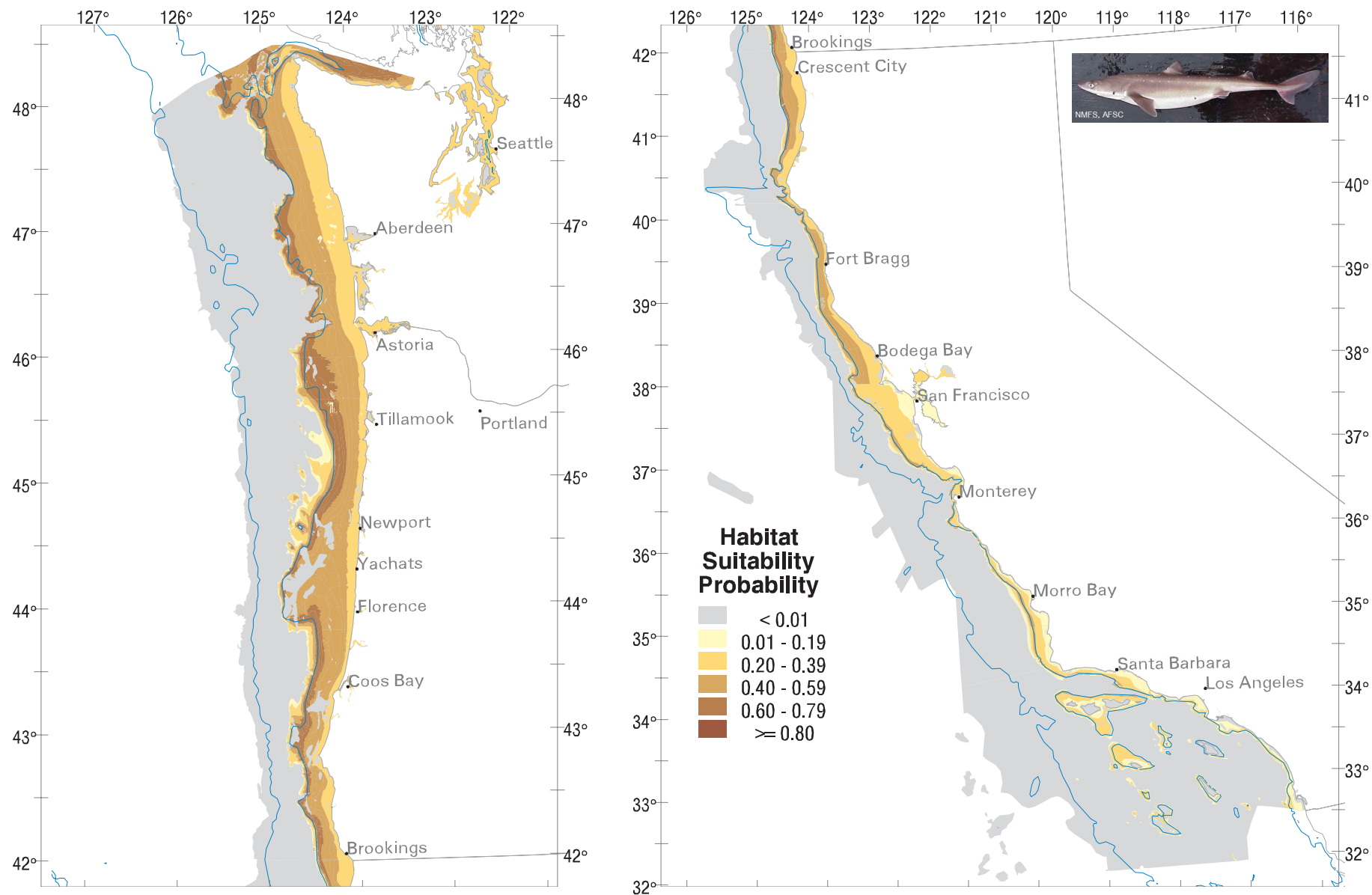
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Spiny Dogfish - Adult



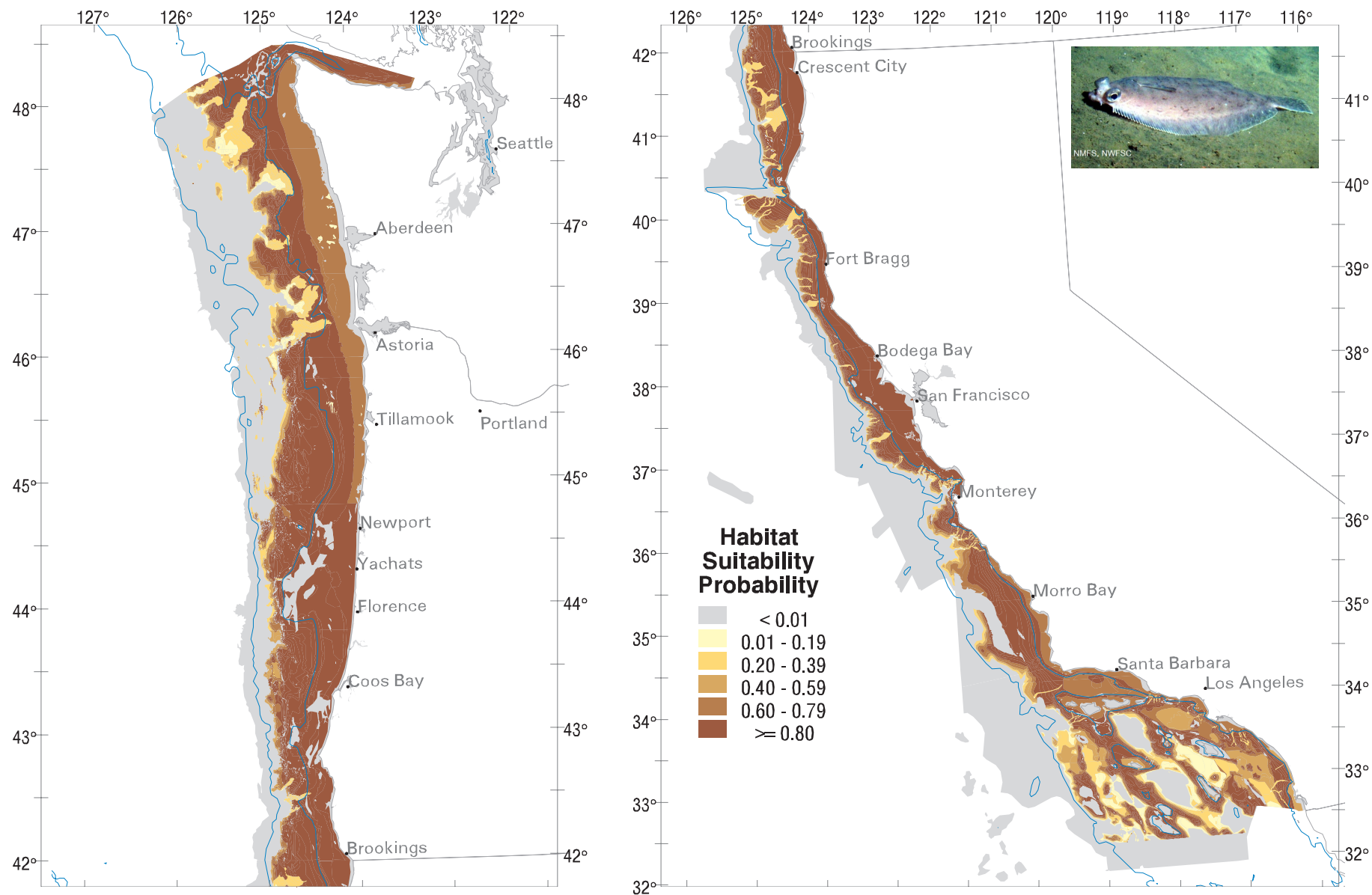
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Spiny Dogfish - Juvenile



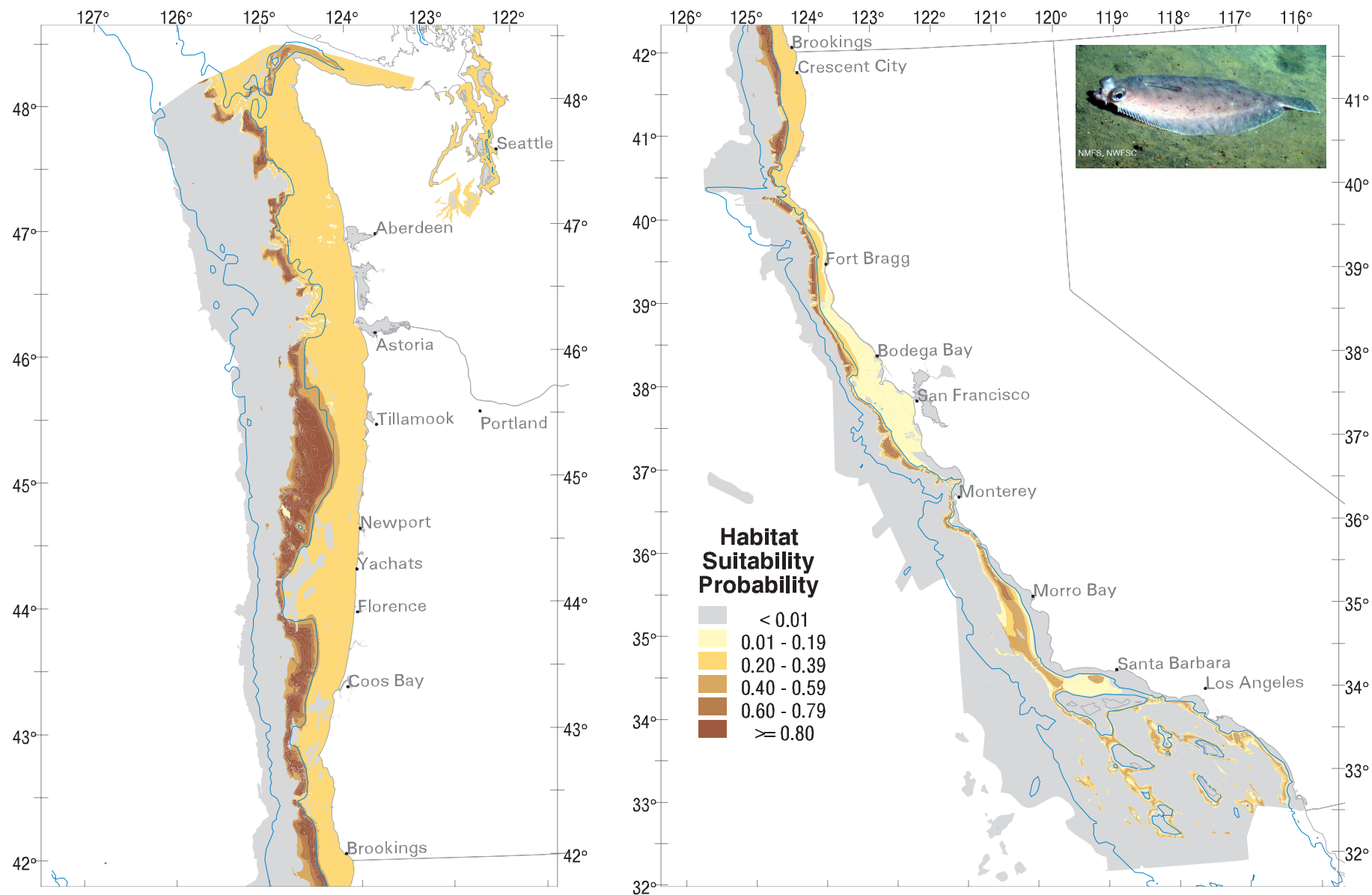
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Dover Sole - Adult



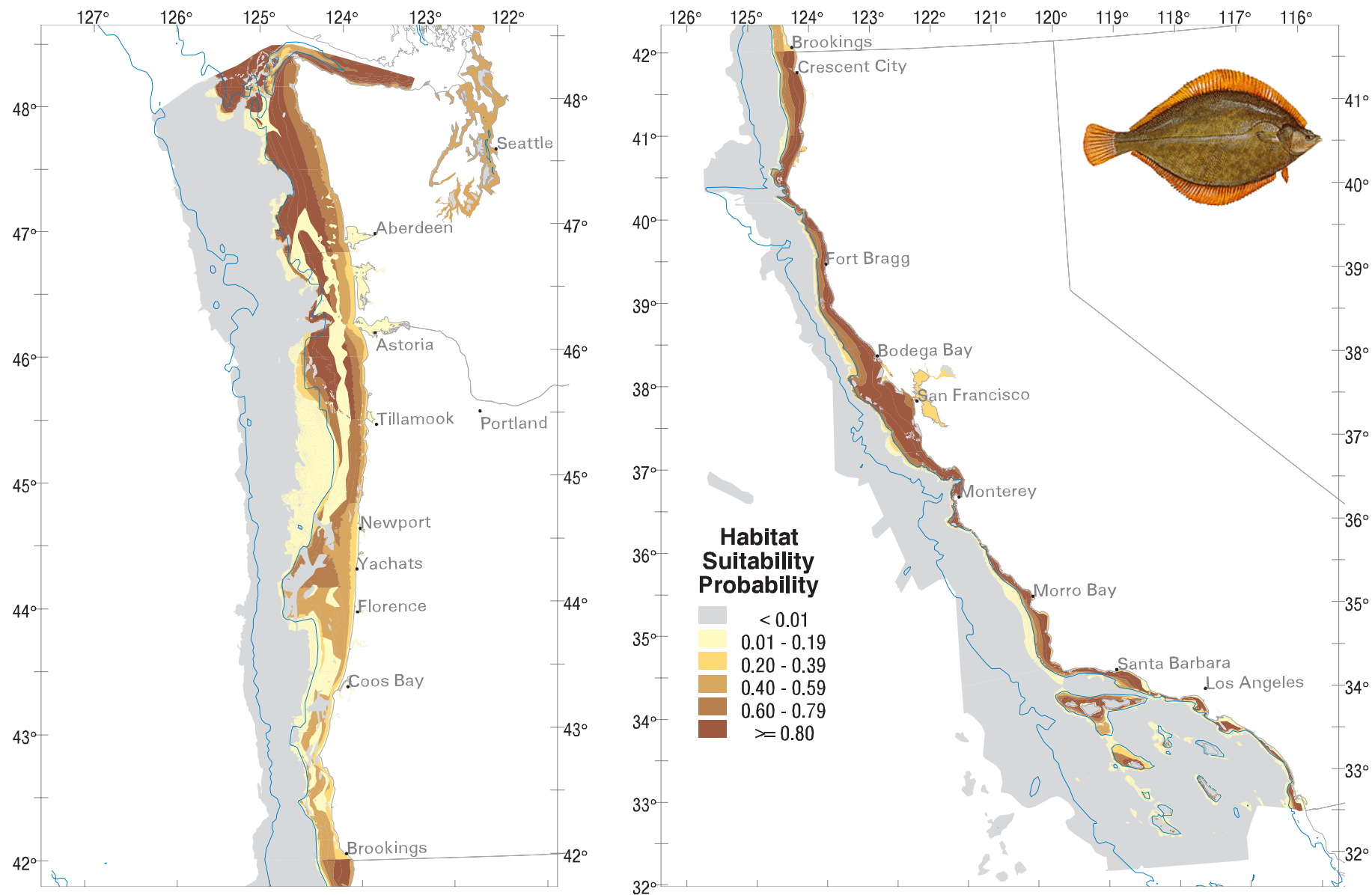
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey*

Dover Sole - Juvenile



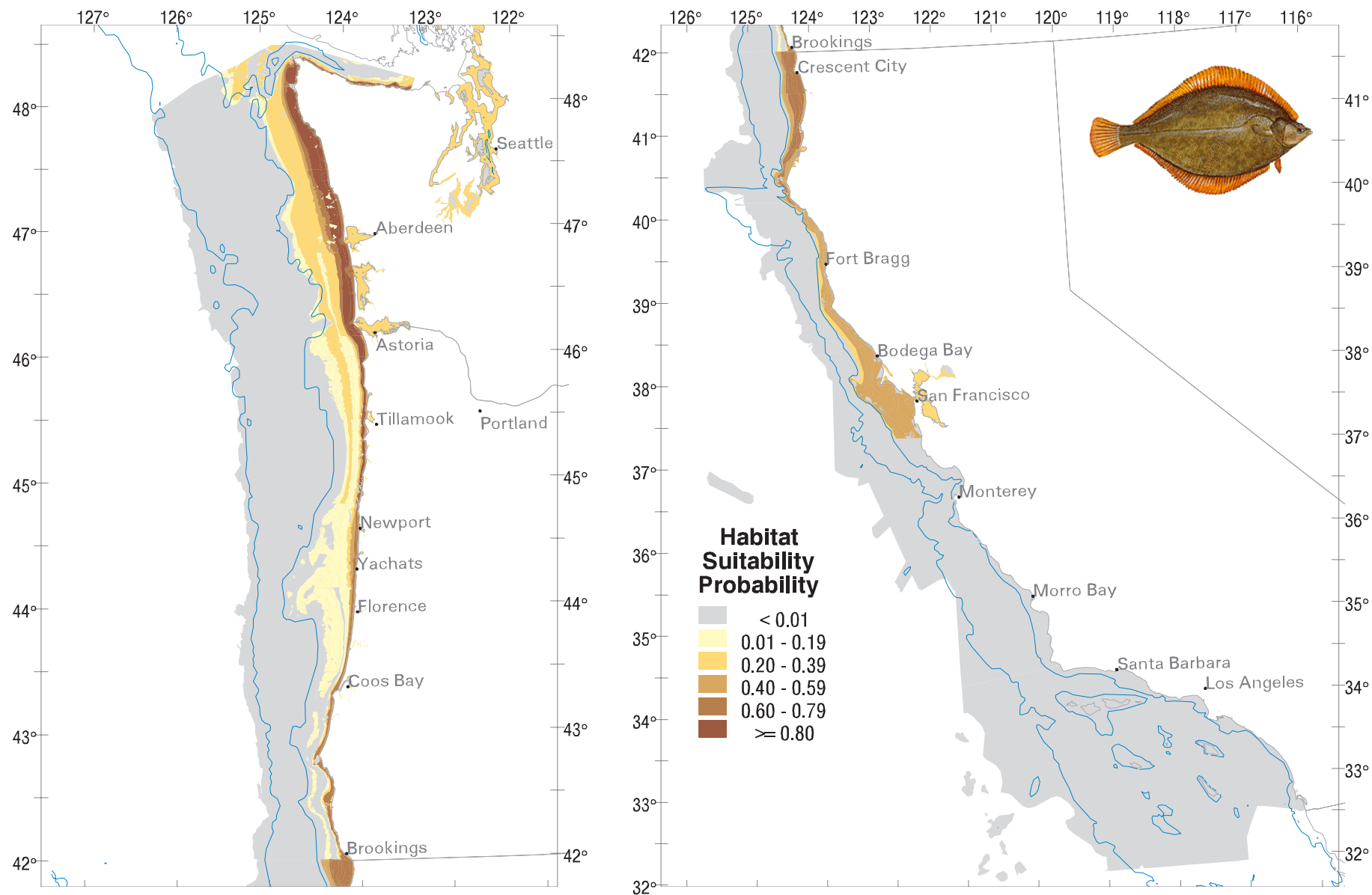
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

English Sole - Adult



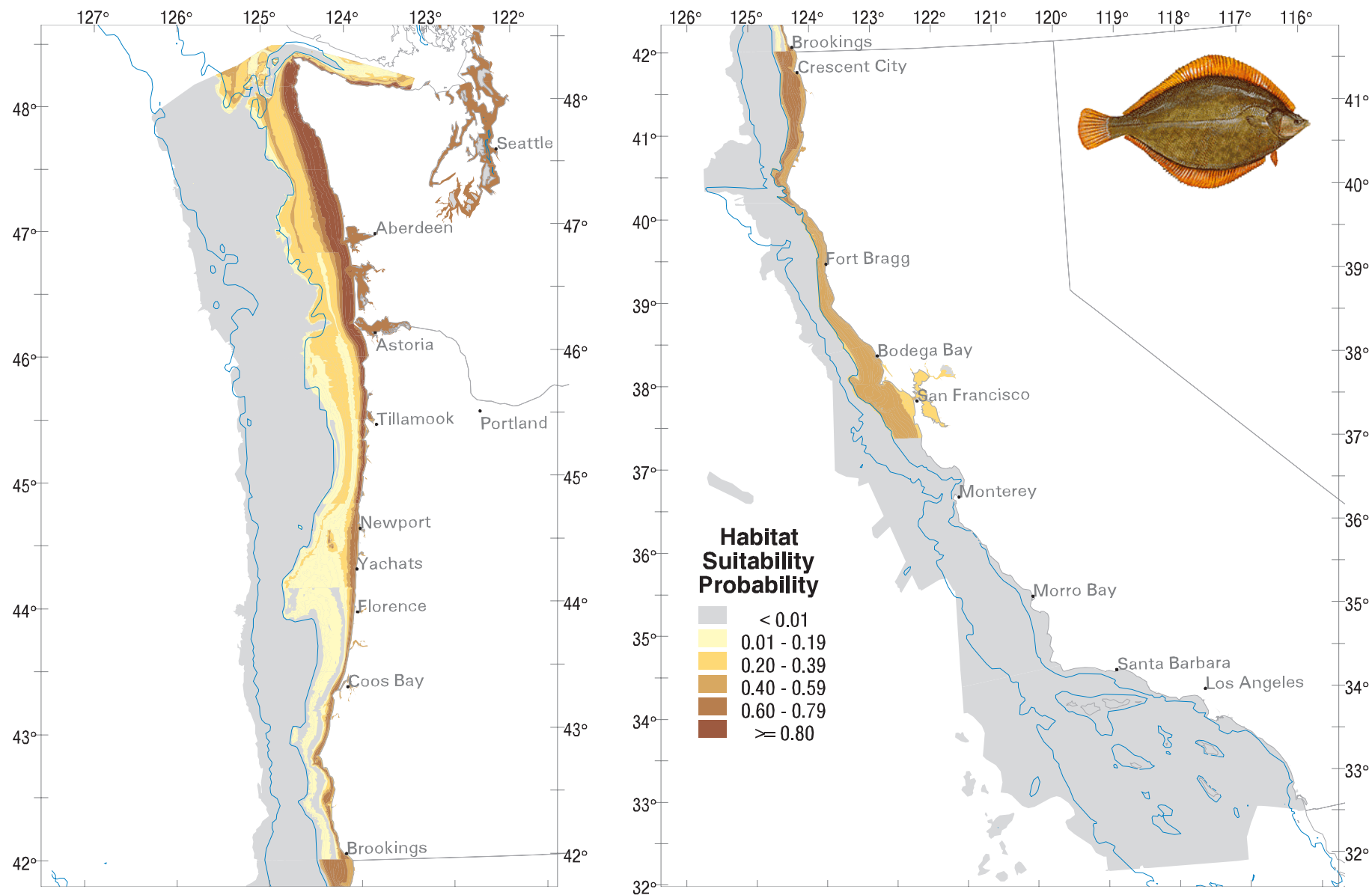
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

English Sole - Juvenile



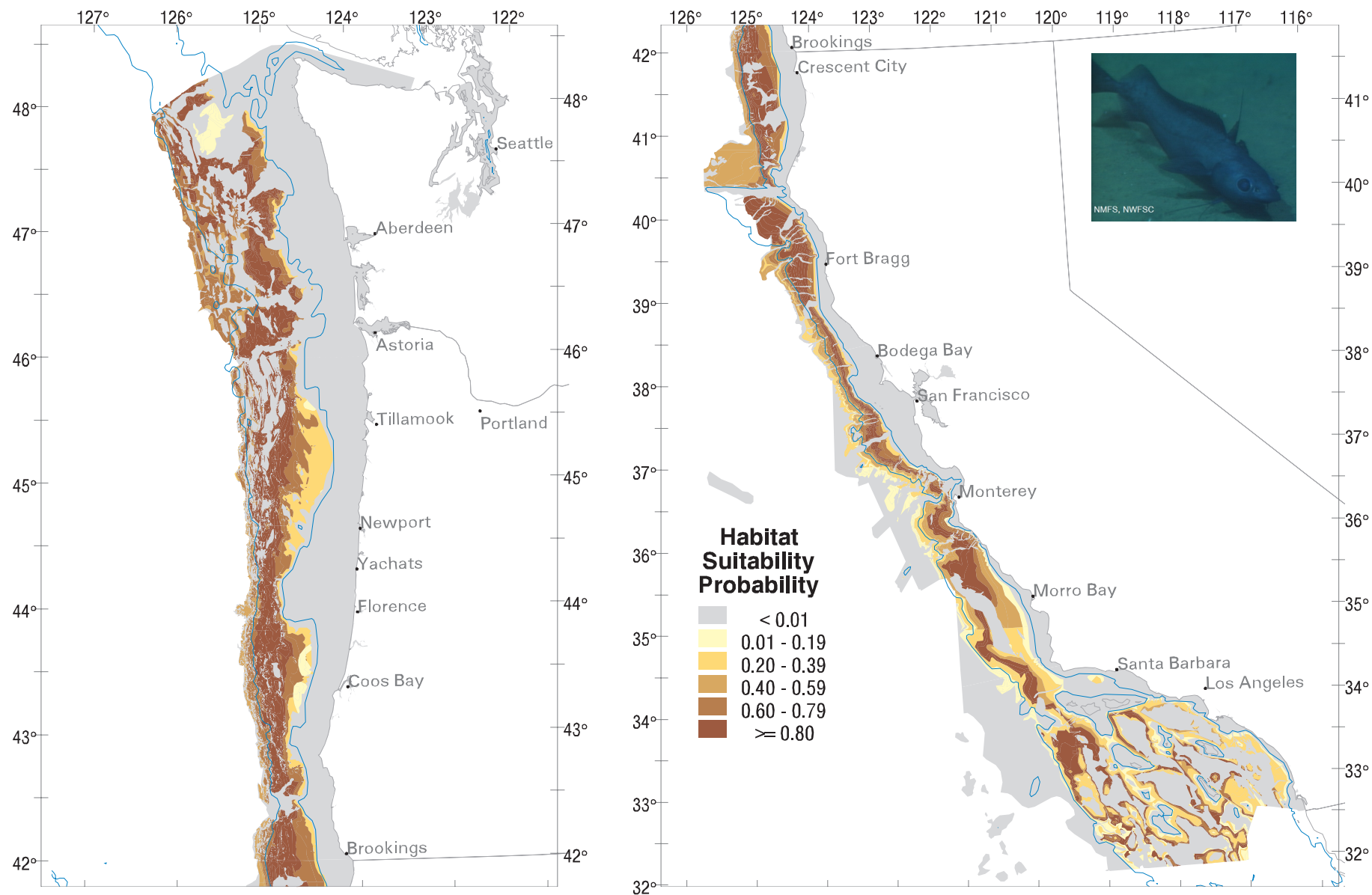
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

English Sole - Larvae



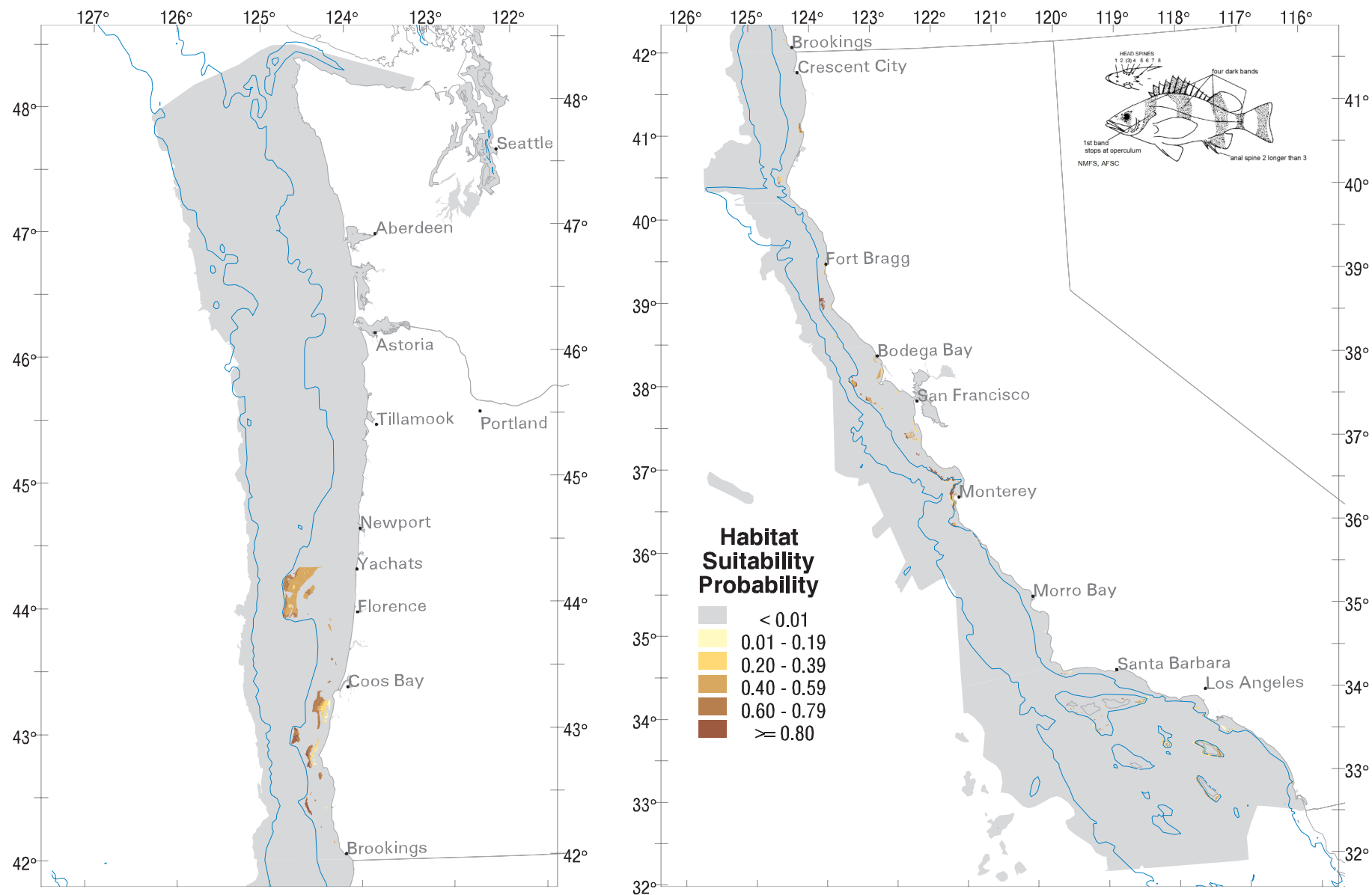
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Finescale Codling - Adult



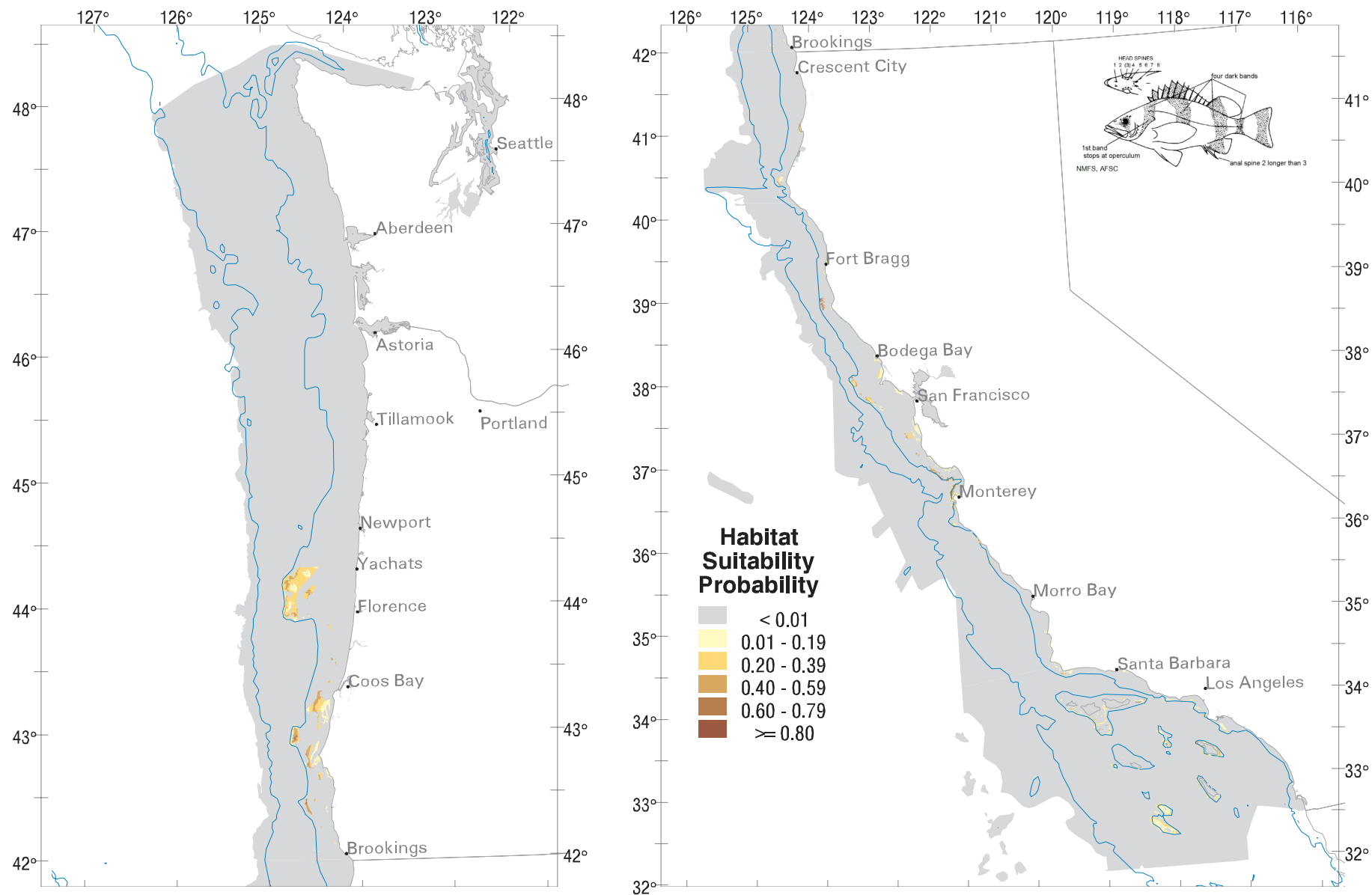
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: 'HUD & Survey'*

Flag Rockfish - Adult



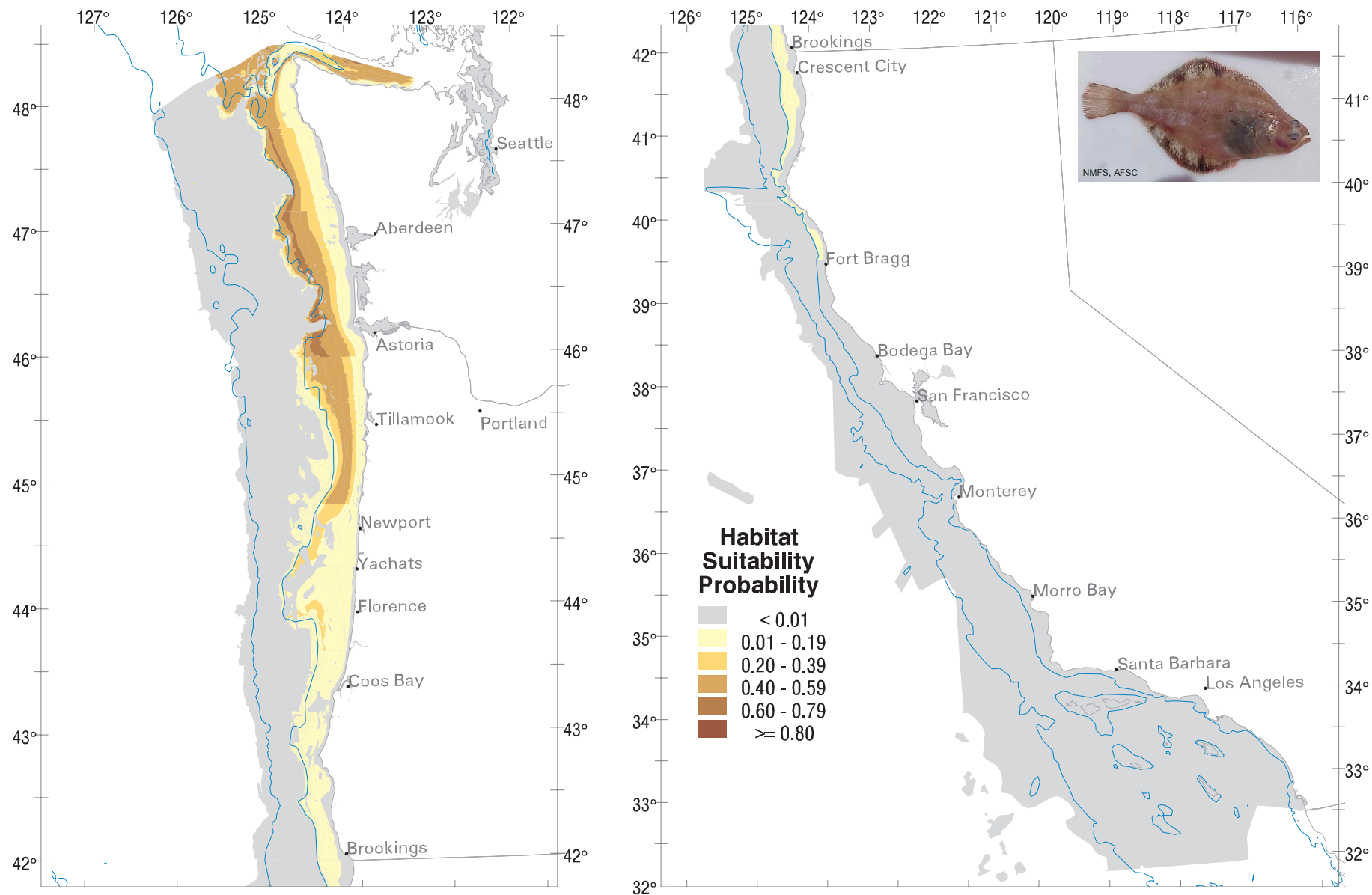
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Flag Rockfish - Juvenile



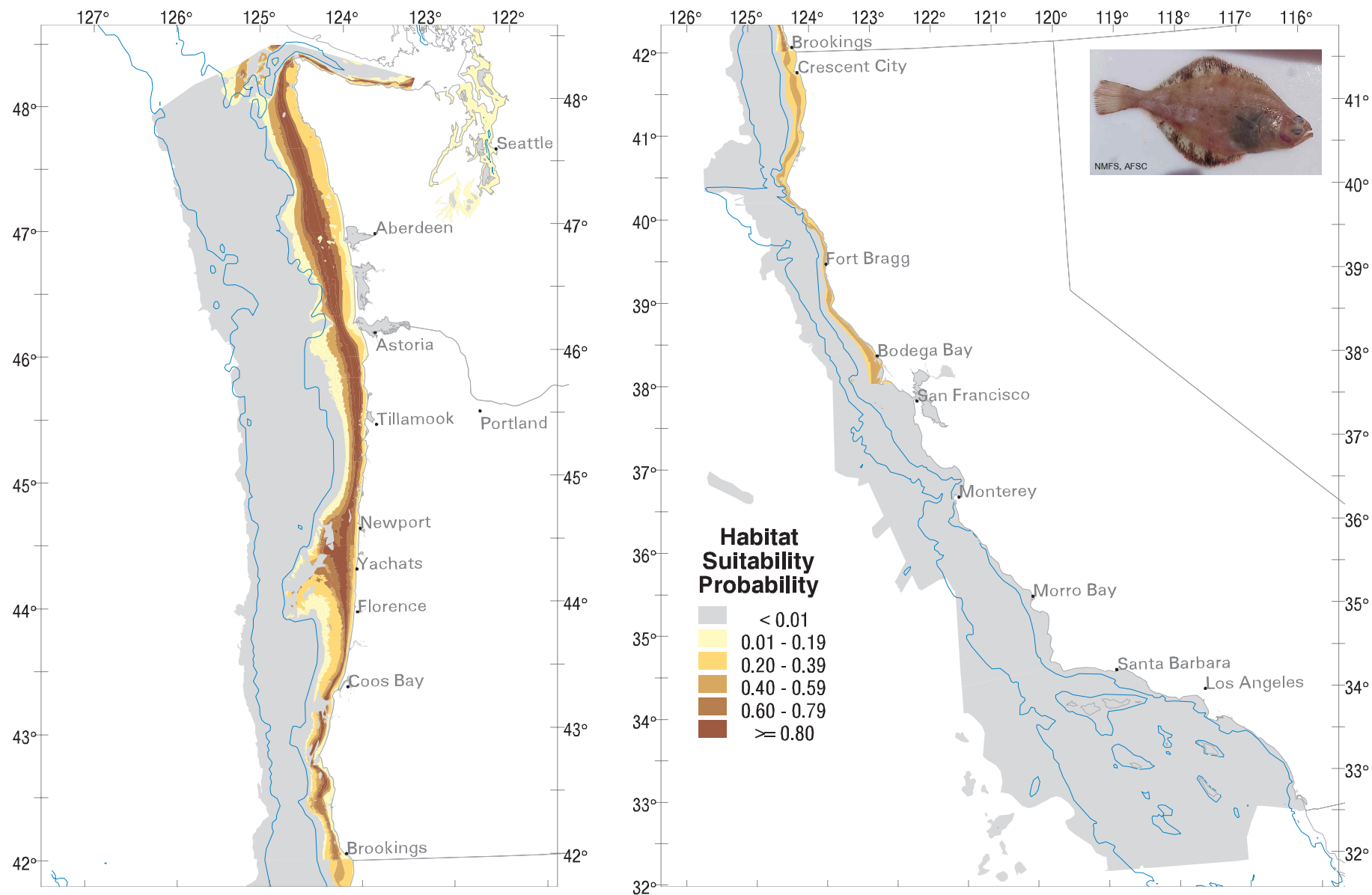
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Flathead Sole - Adult

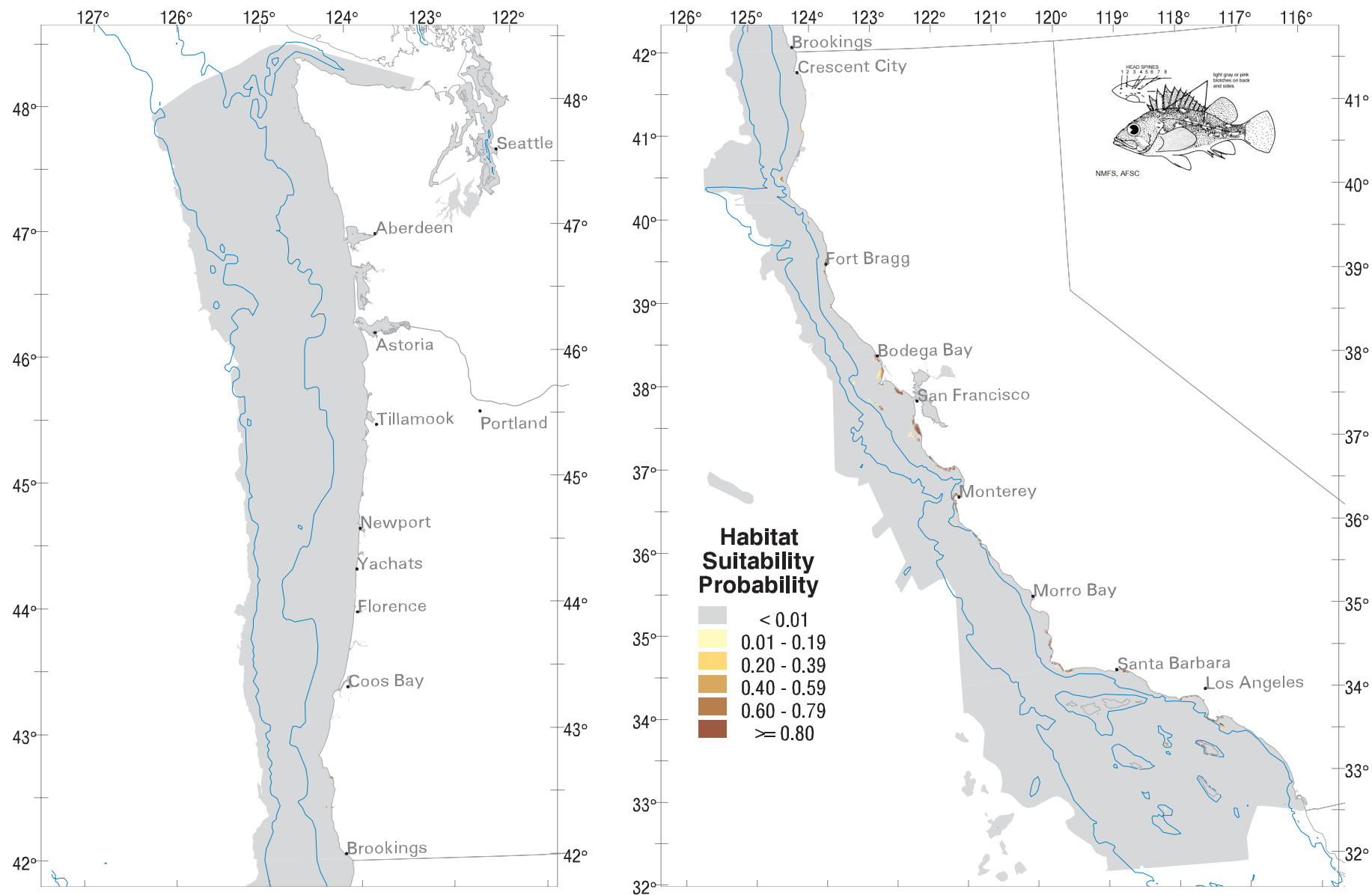


*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey+*

Flathead Sole - Juvenile

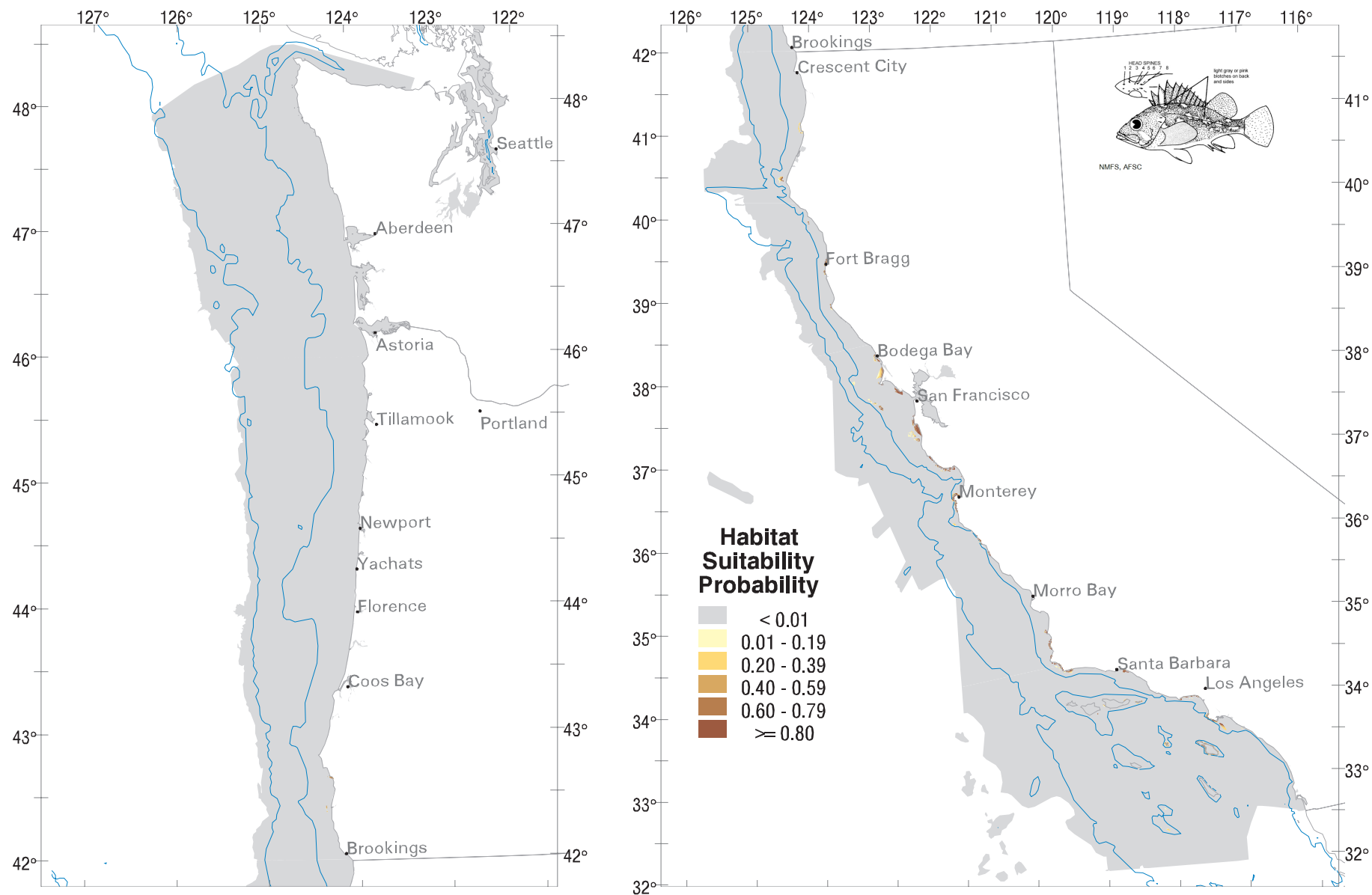


Gopher Rockfish - Adult



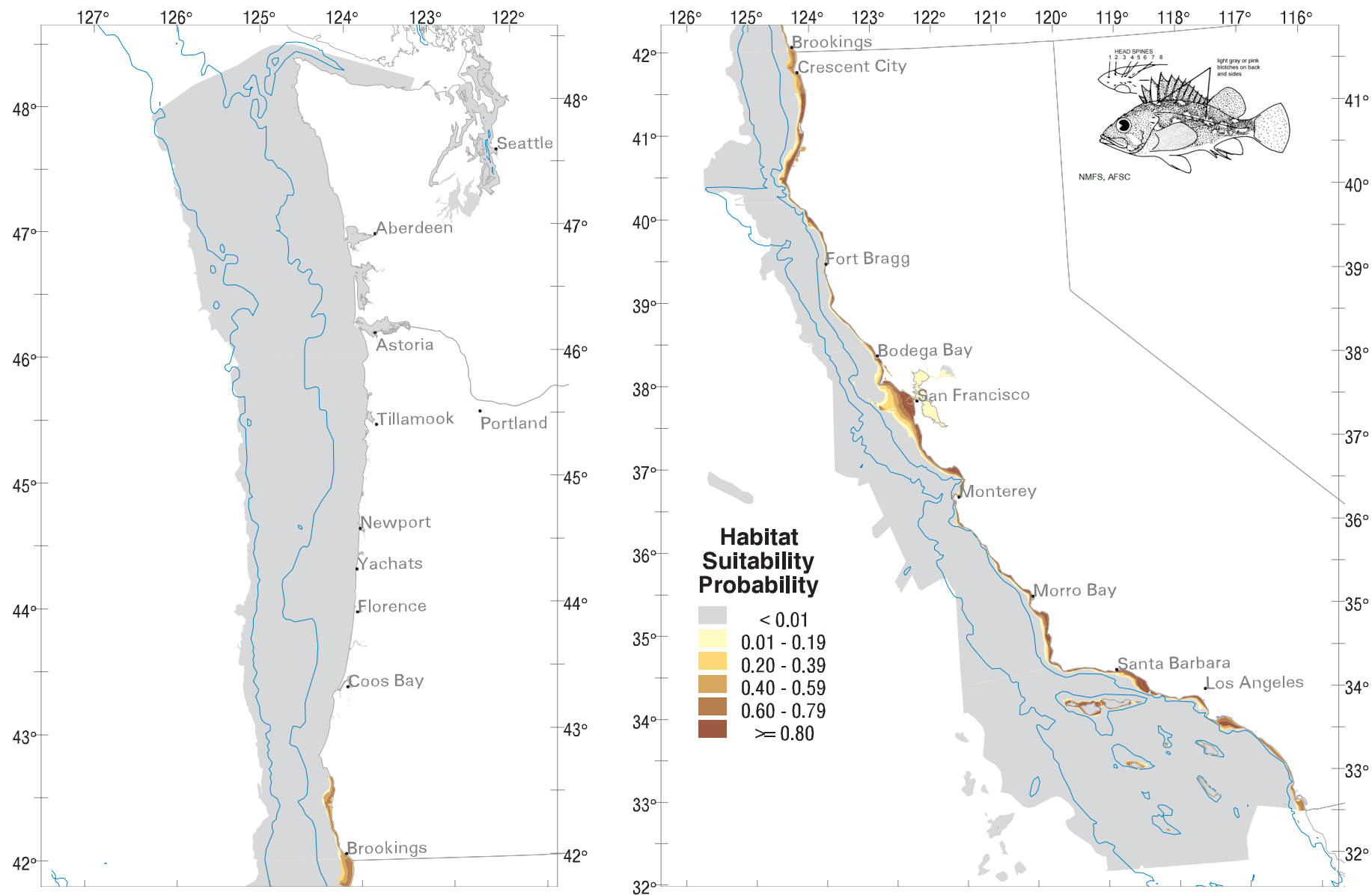
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Gopher Rockfish - Juvenile



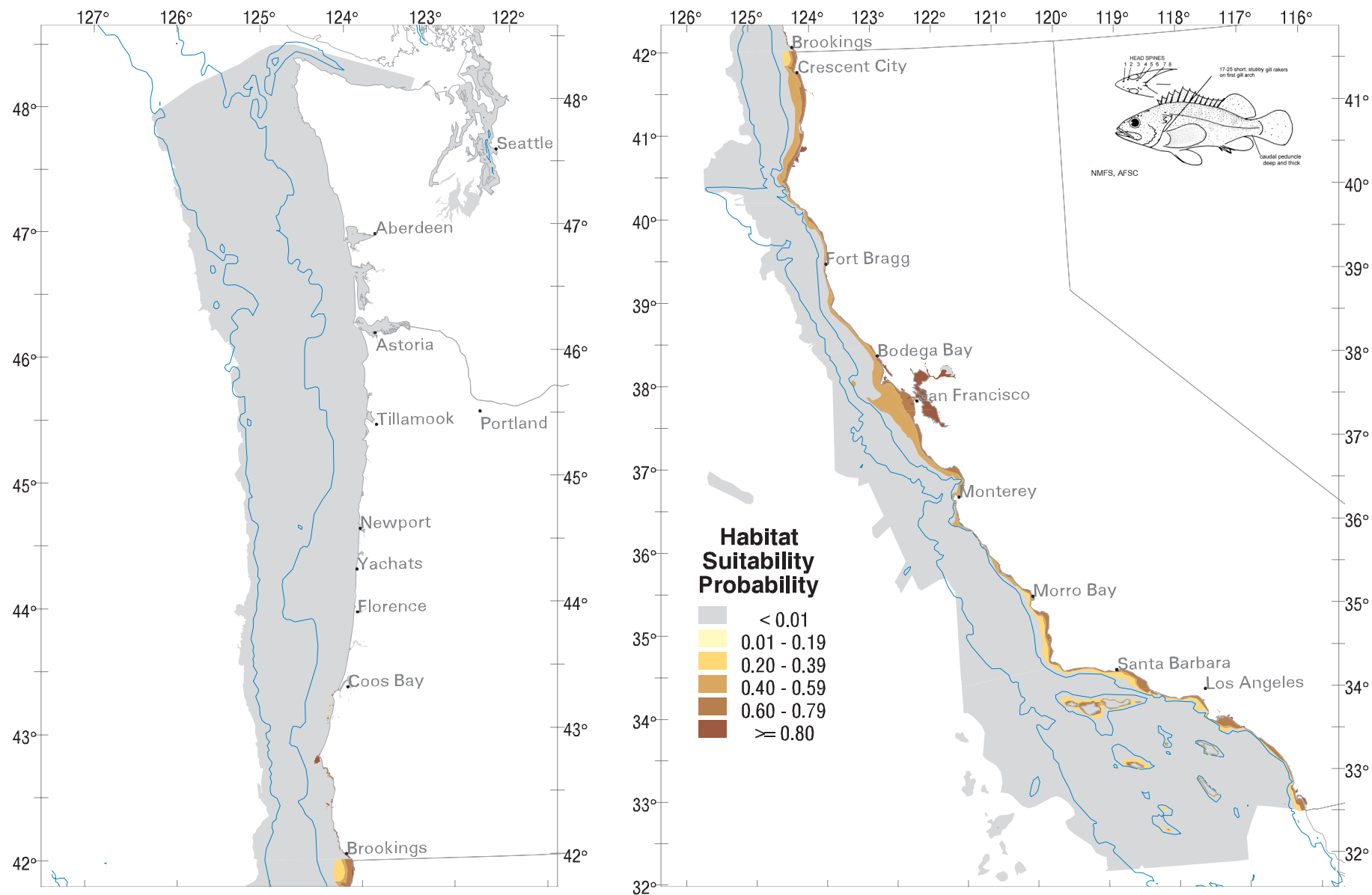
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Gopher Rockfish - Larvae



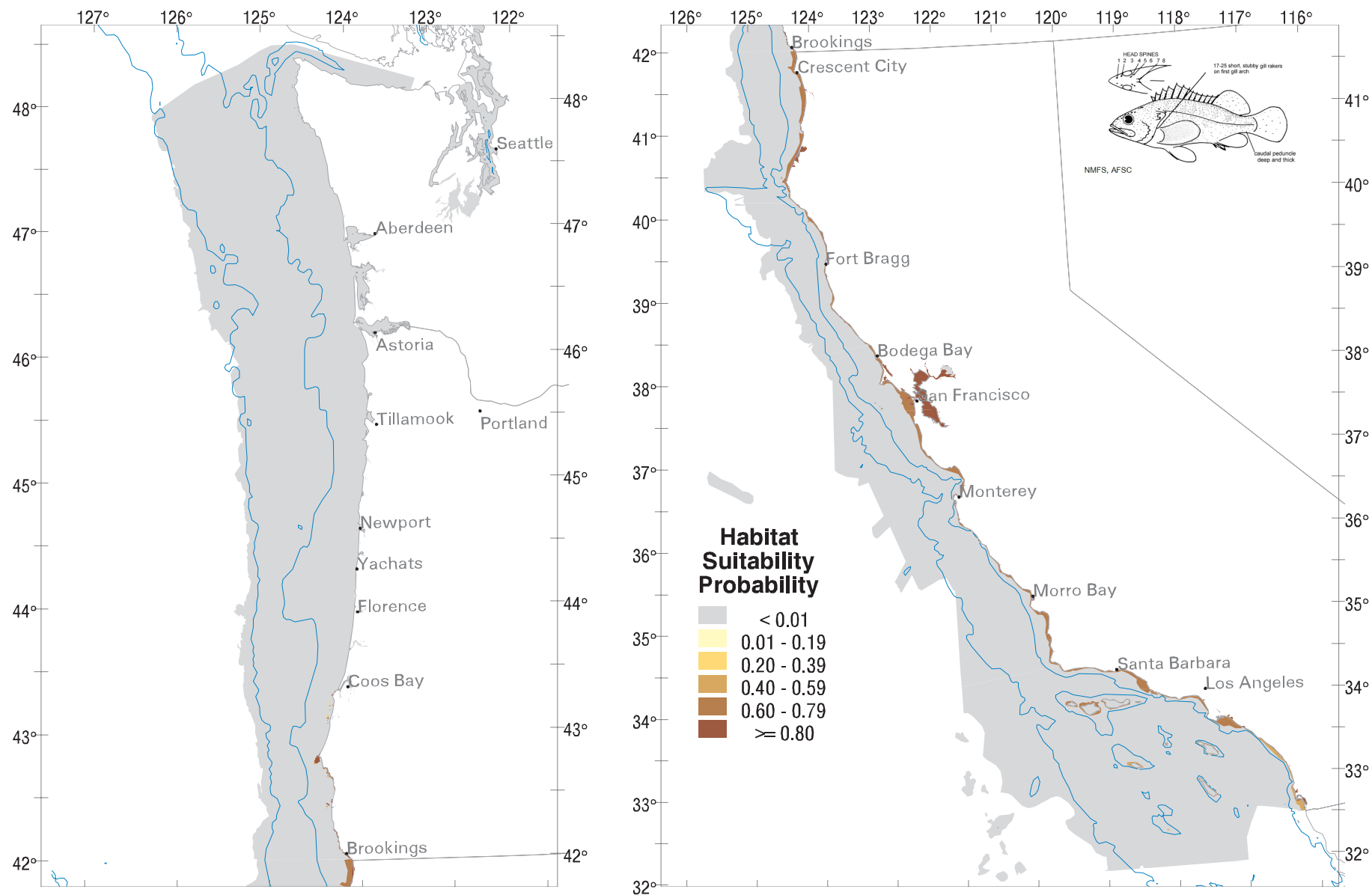
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Grass Rockfish - Adult



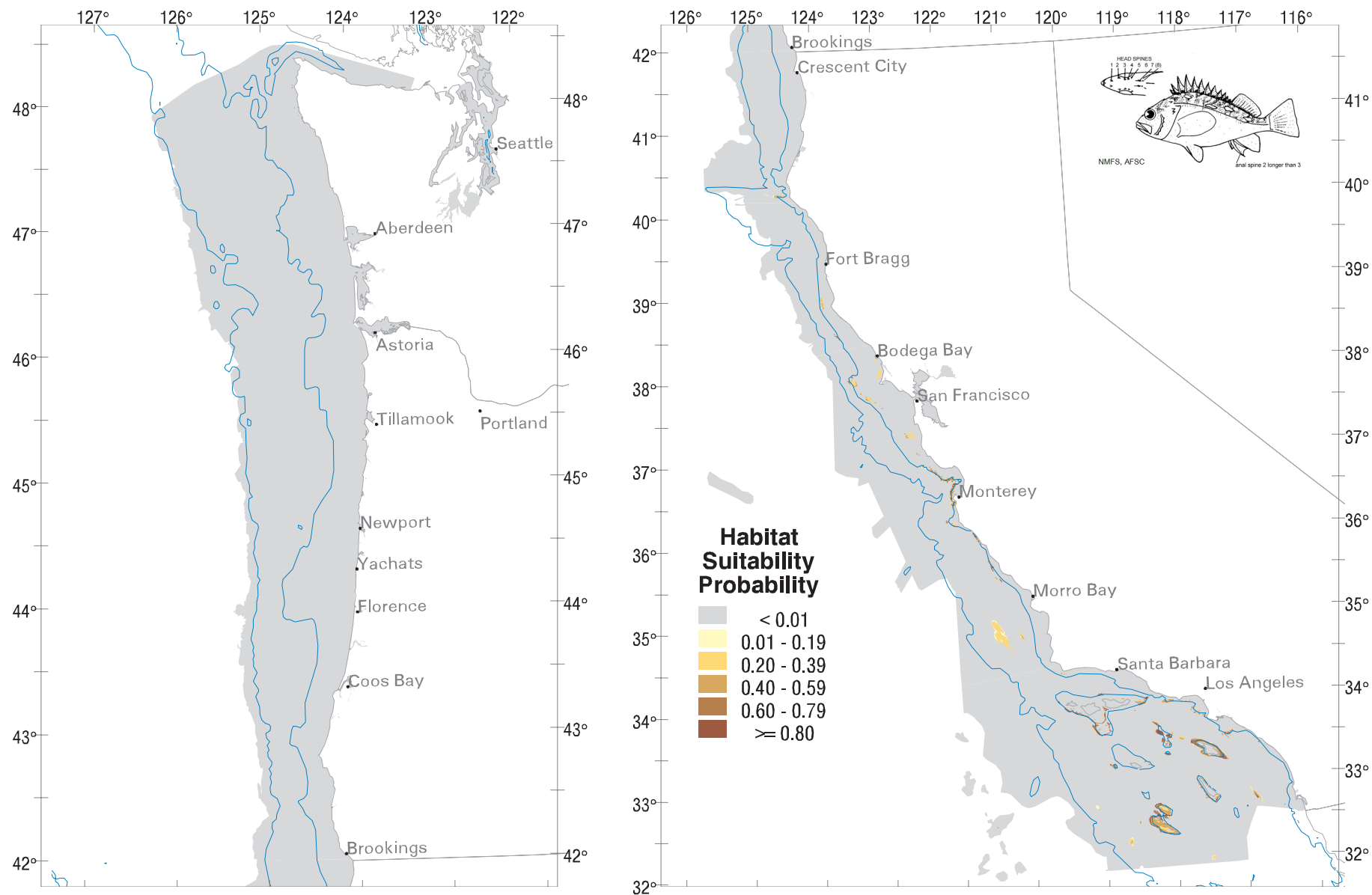
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Grass Rockfish - Juvenile



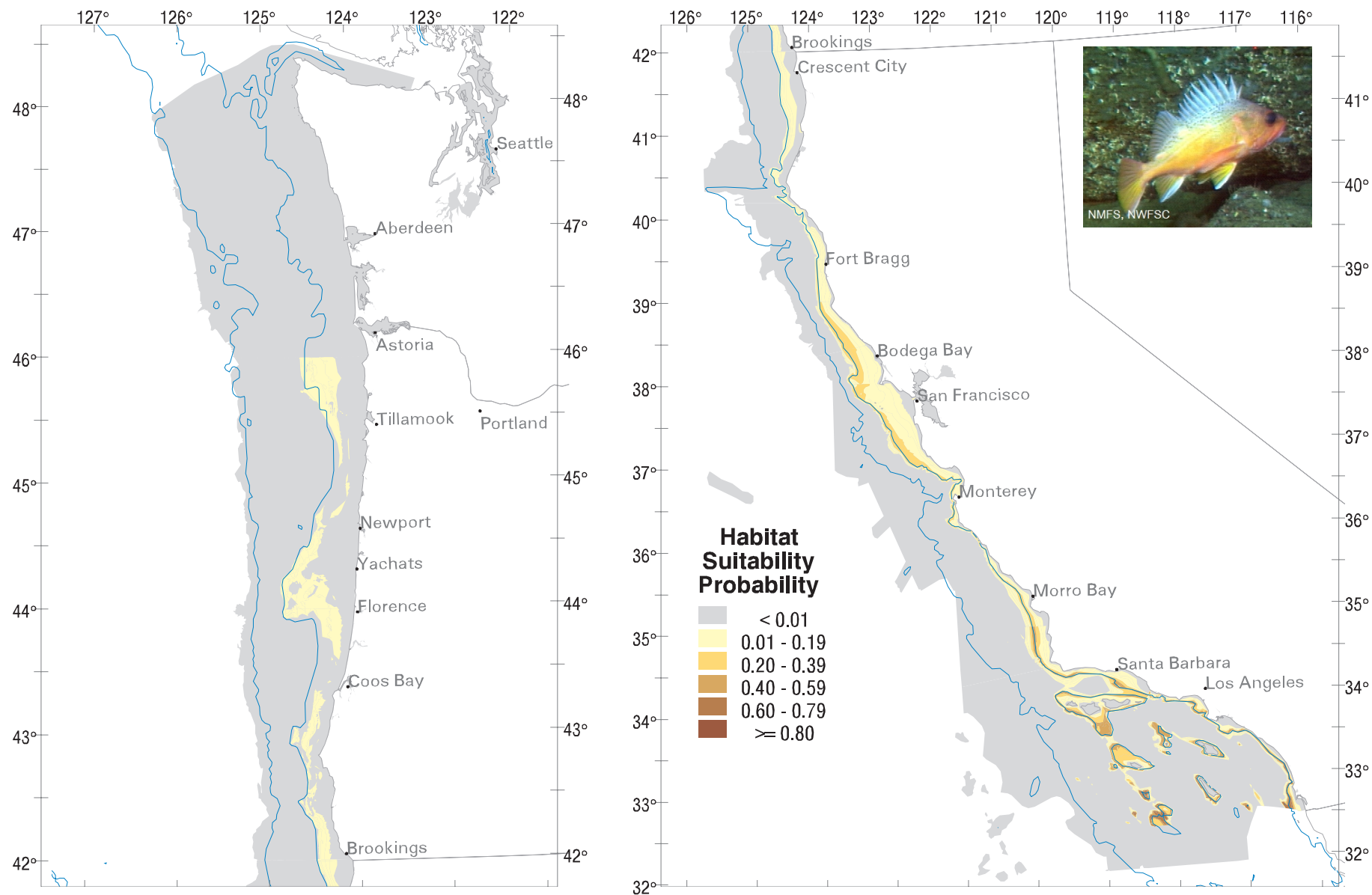
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Greenblotched Rockfish - Adult



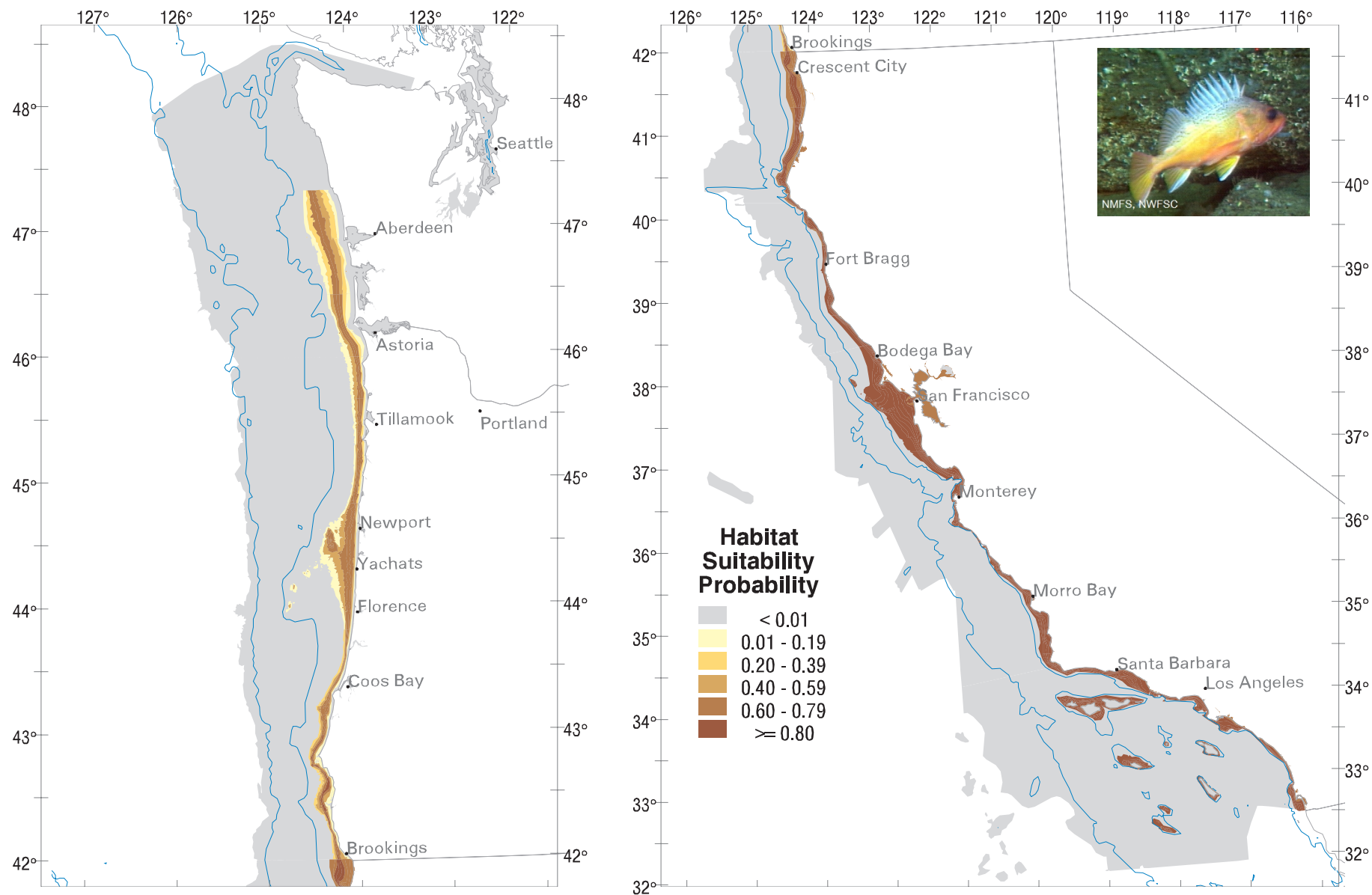
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Greenspotted Rockfish - Adult

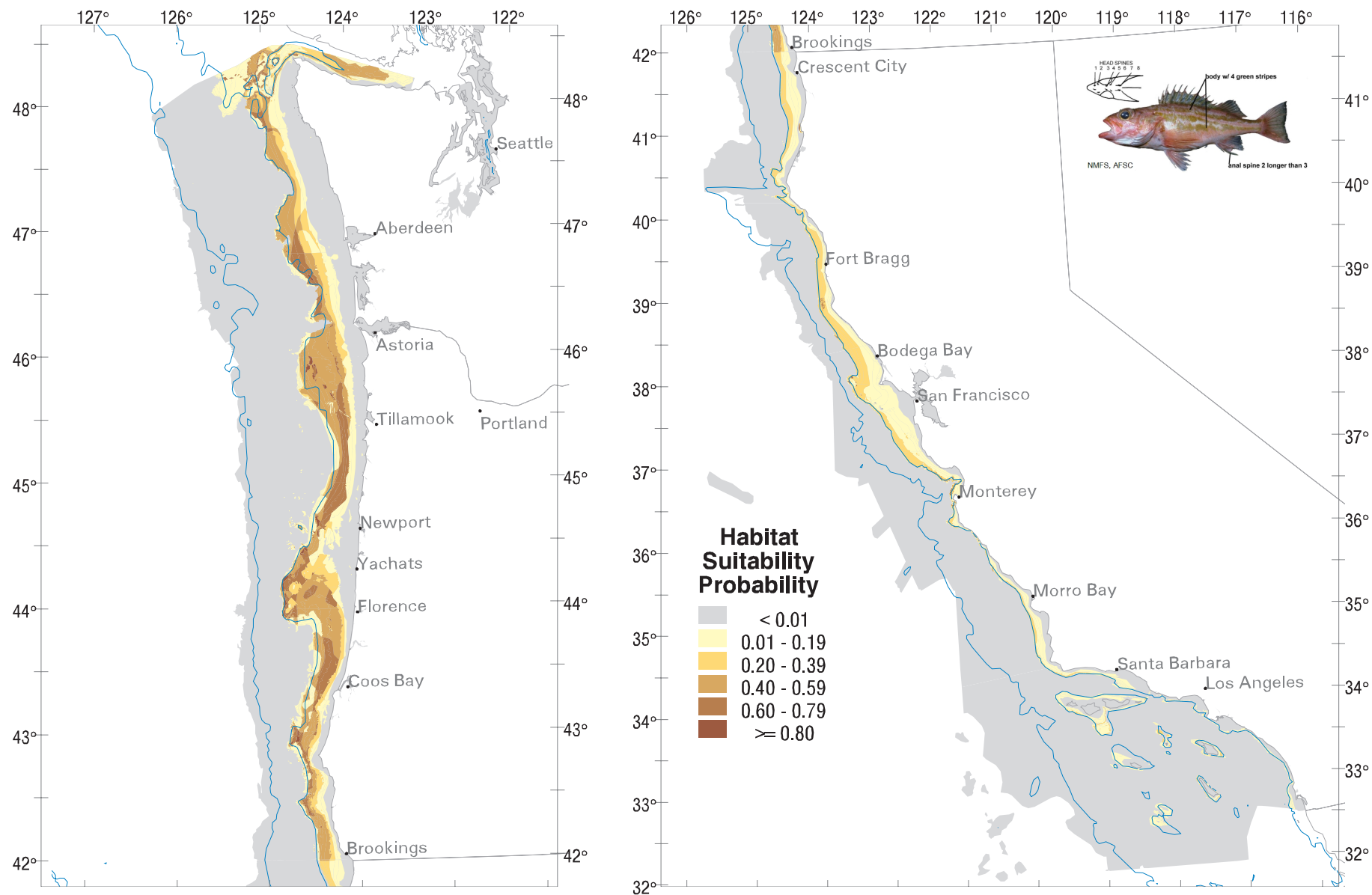


*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey*

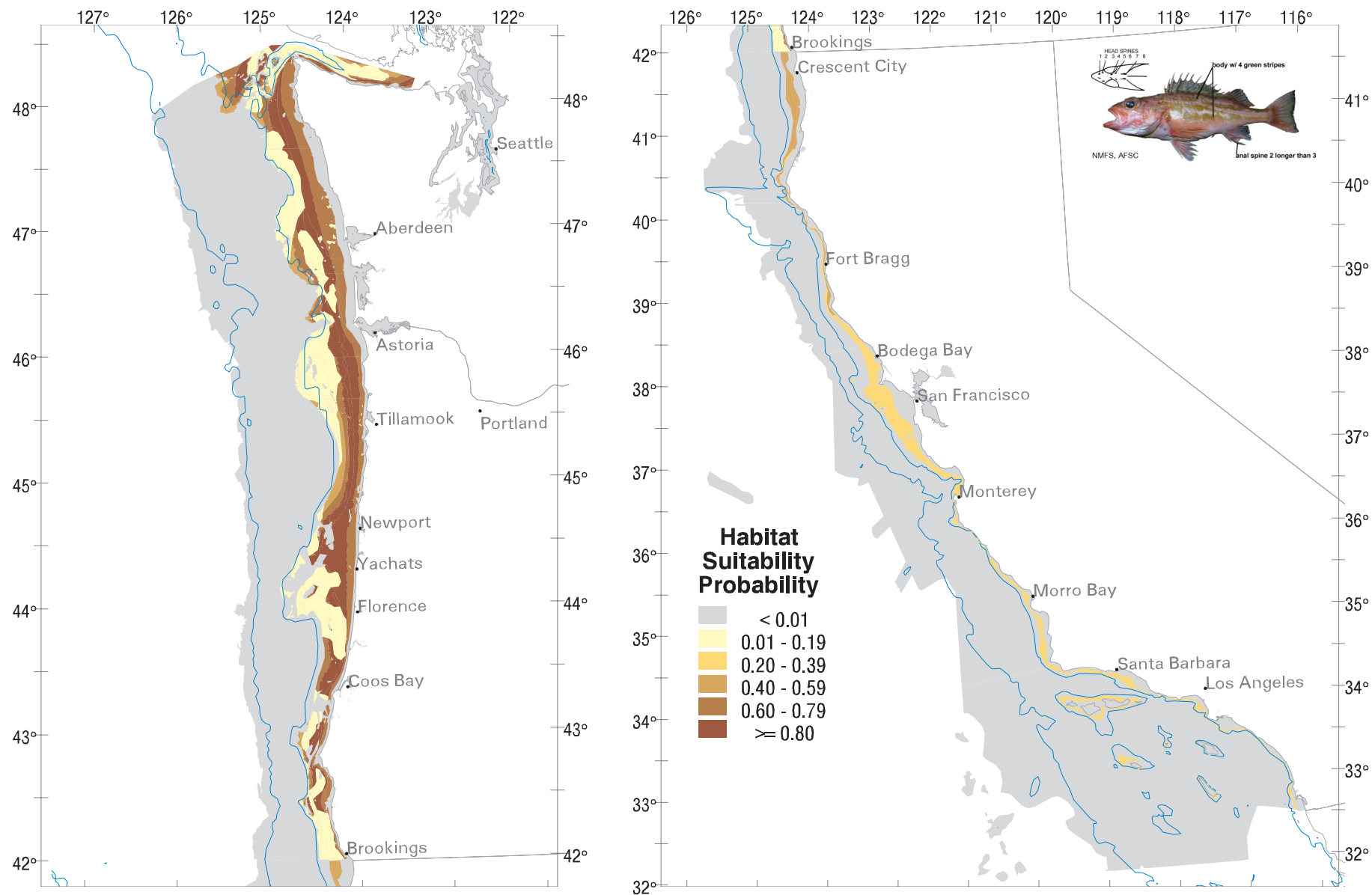
Greenspotted Rockfish - Juvenile



Greenstriped Rockfish - Adult

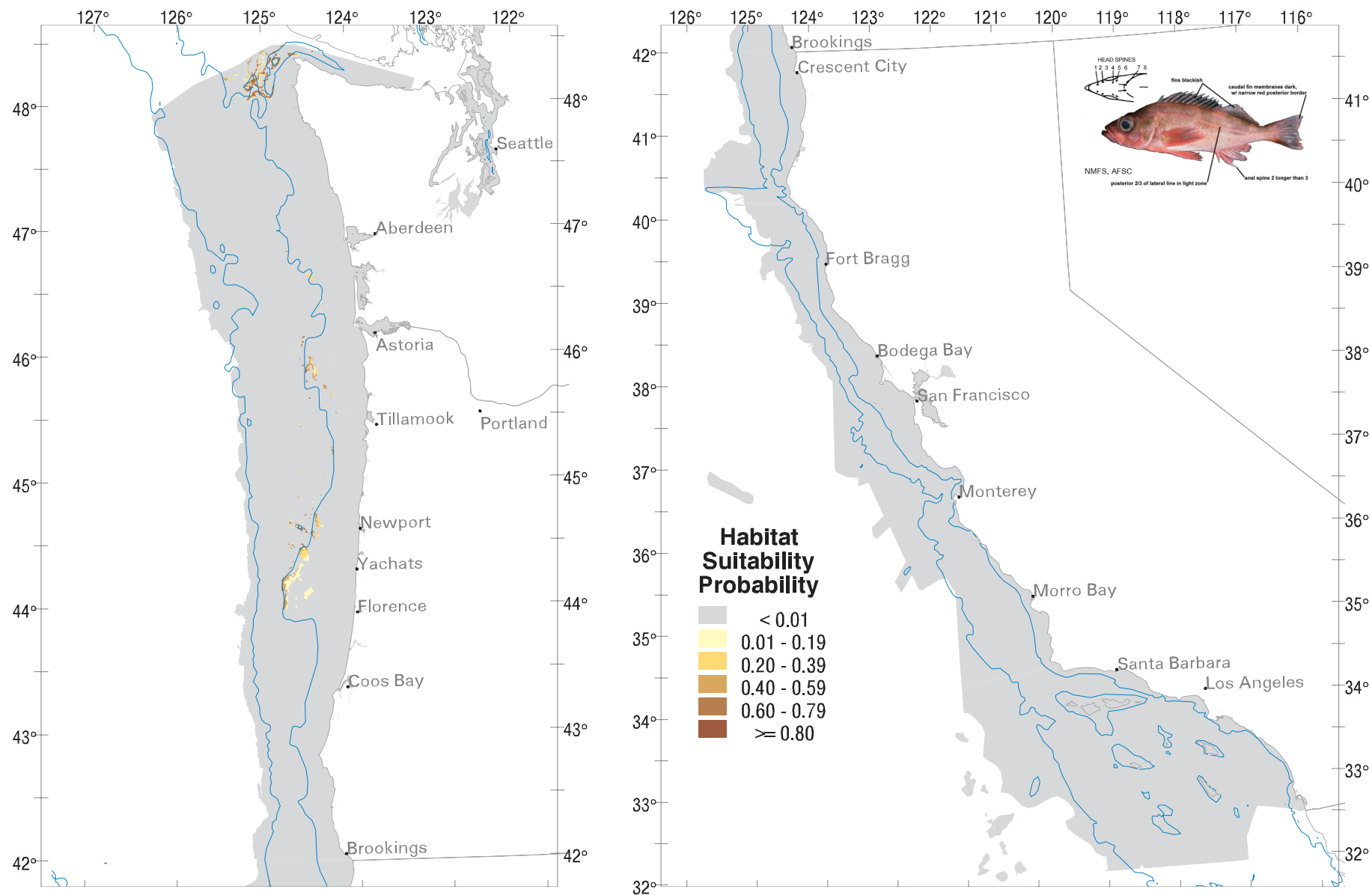


Greenstriped Rockfish - Juvenile



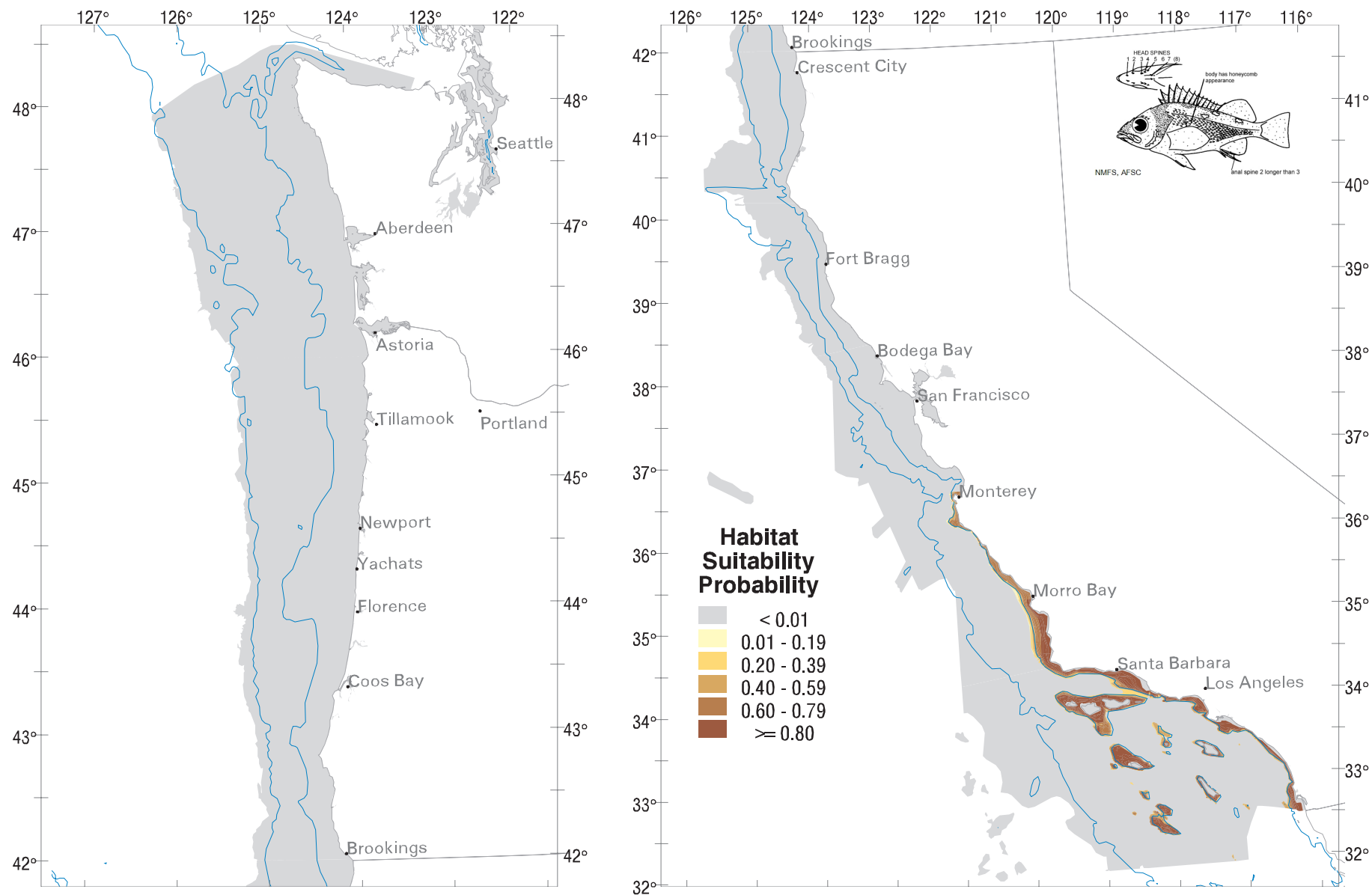
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Harlequin Rockfish - Adult



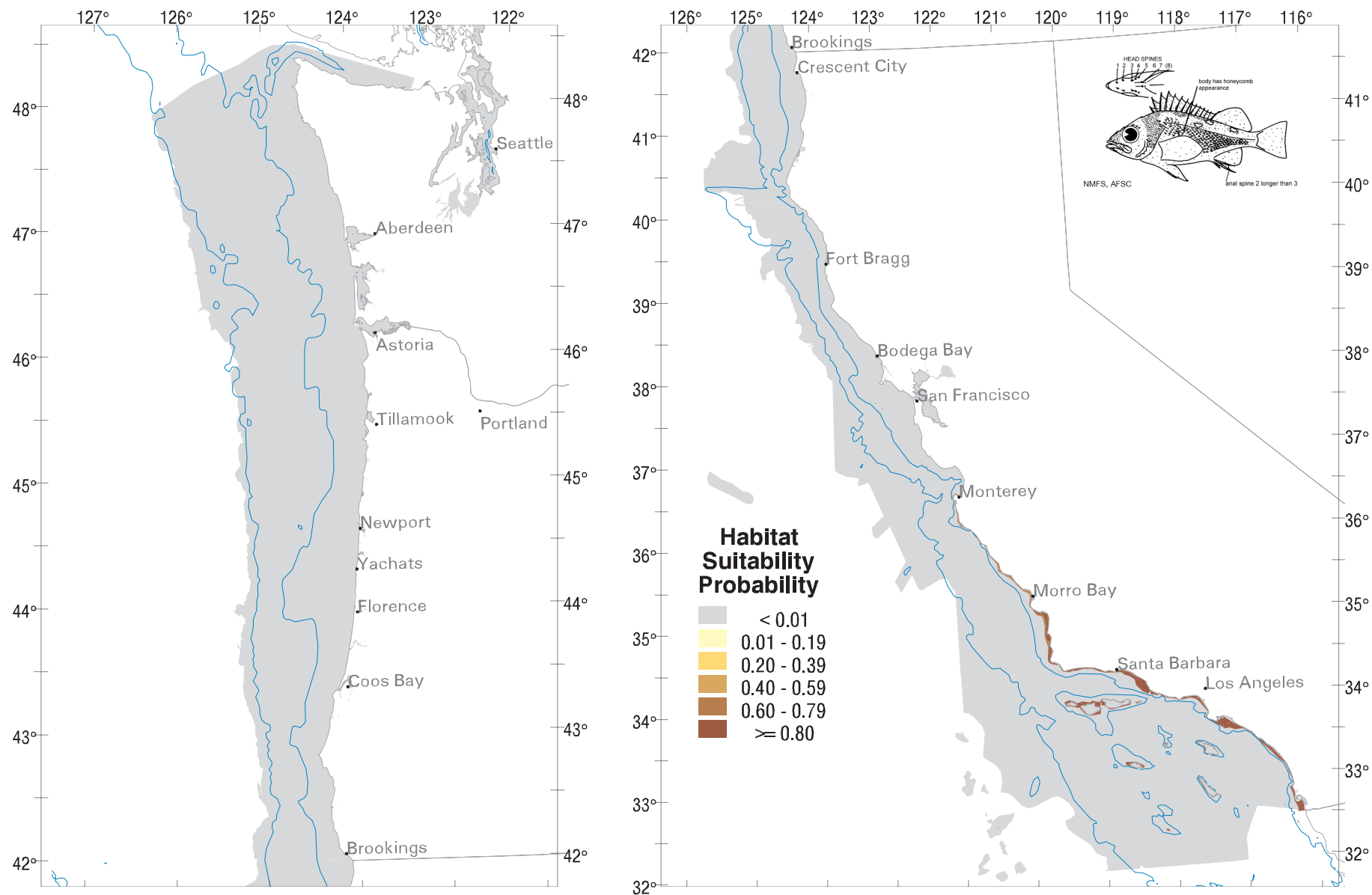
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Honeycomb Rockfish - Adult



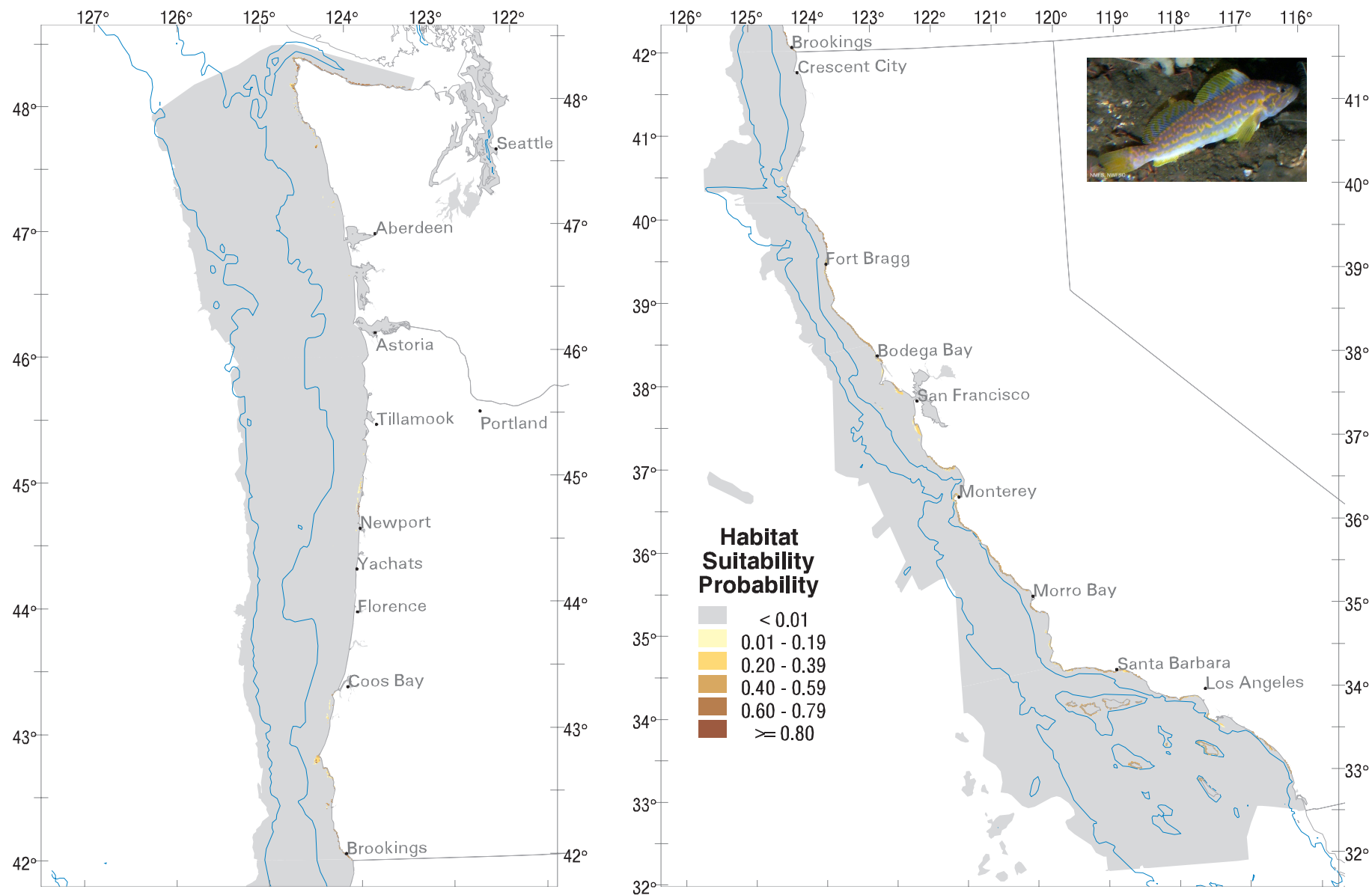
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Honeycomb Rockfish - Juvenile



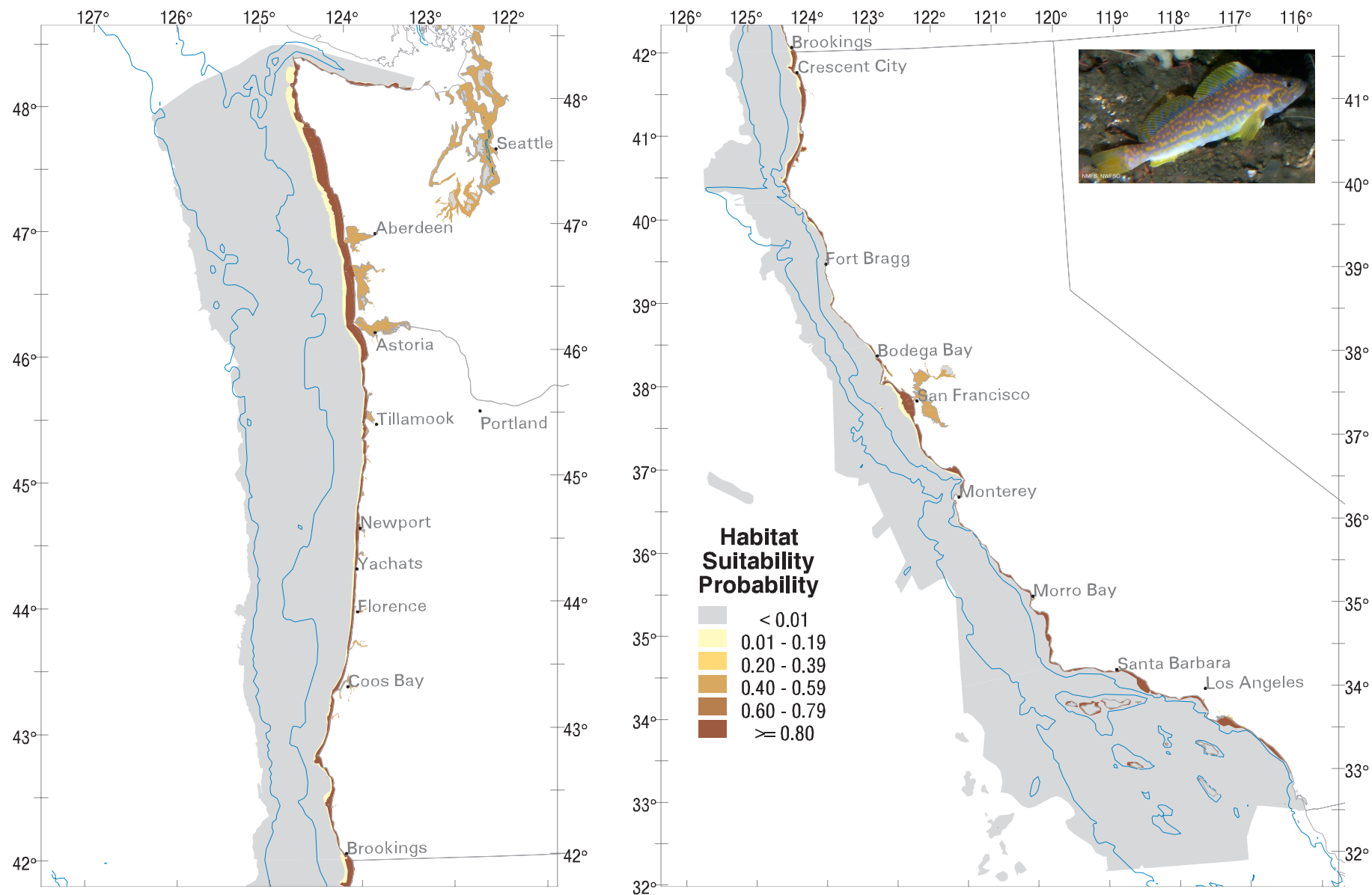
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Kelp Greenling - Adult



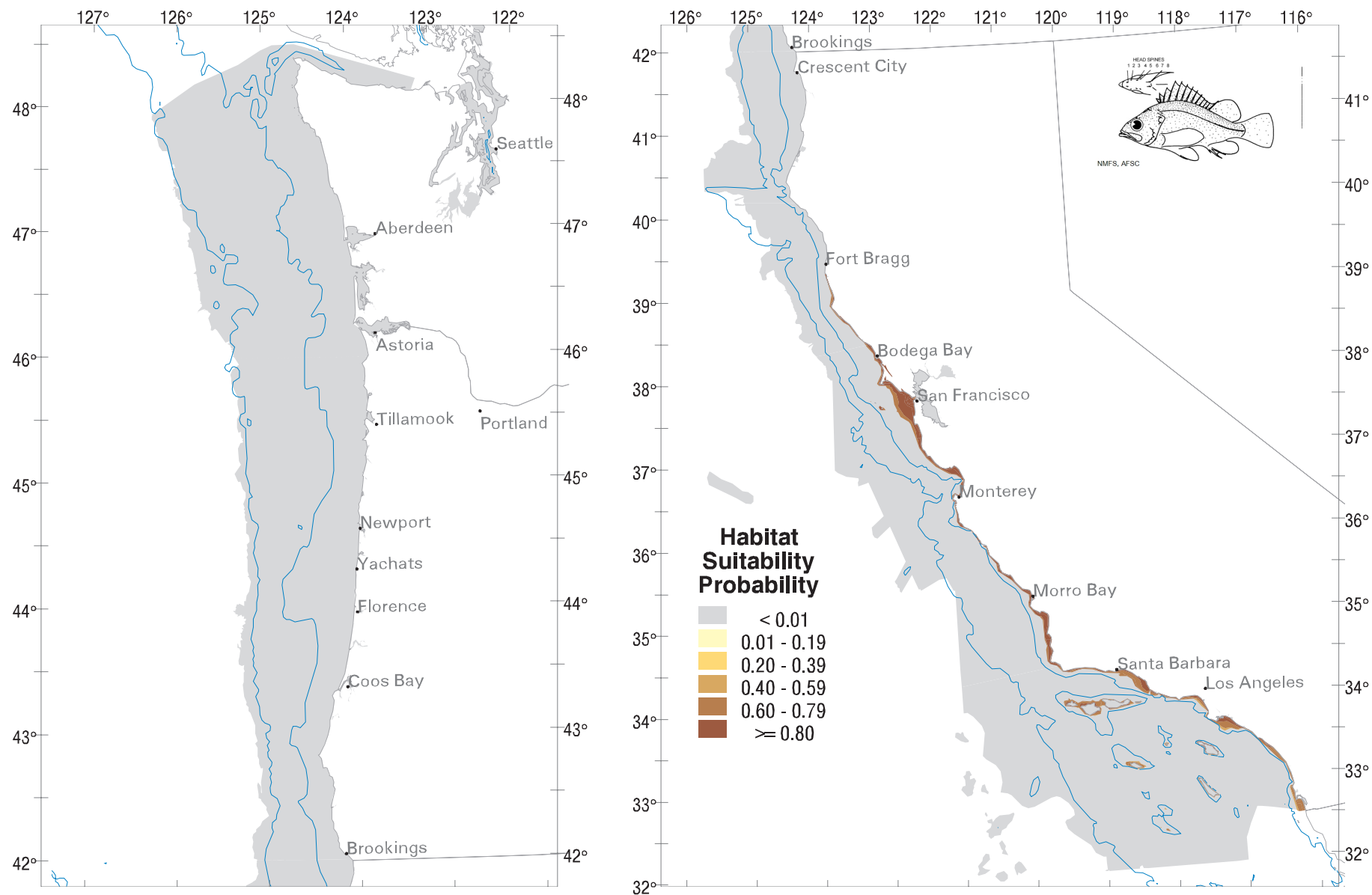
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Kelp Greenling - Larvae



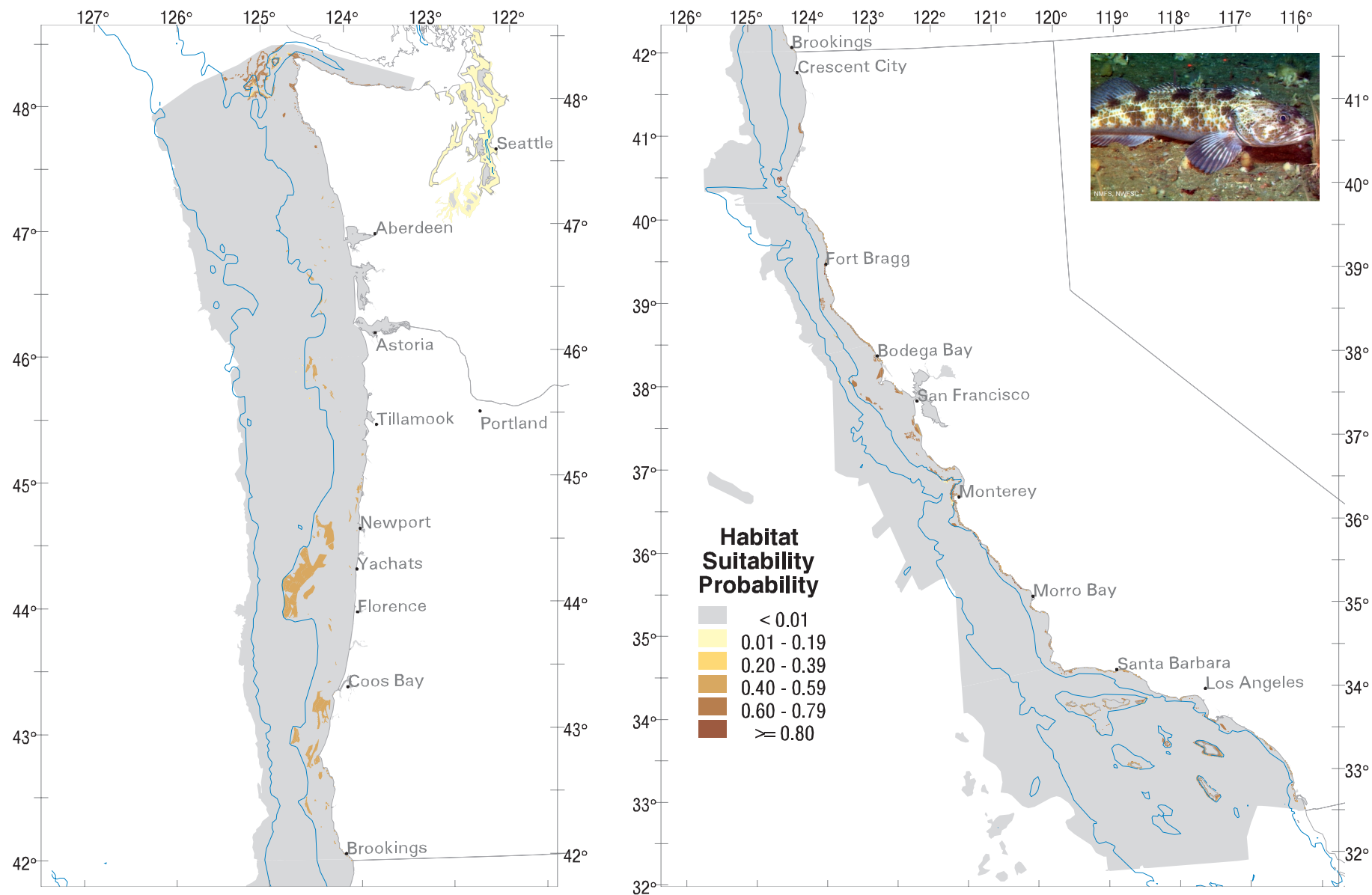
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Kelp Rockfish - Adult



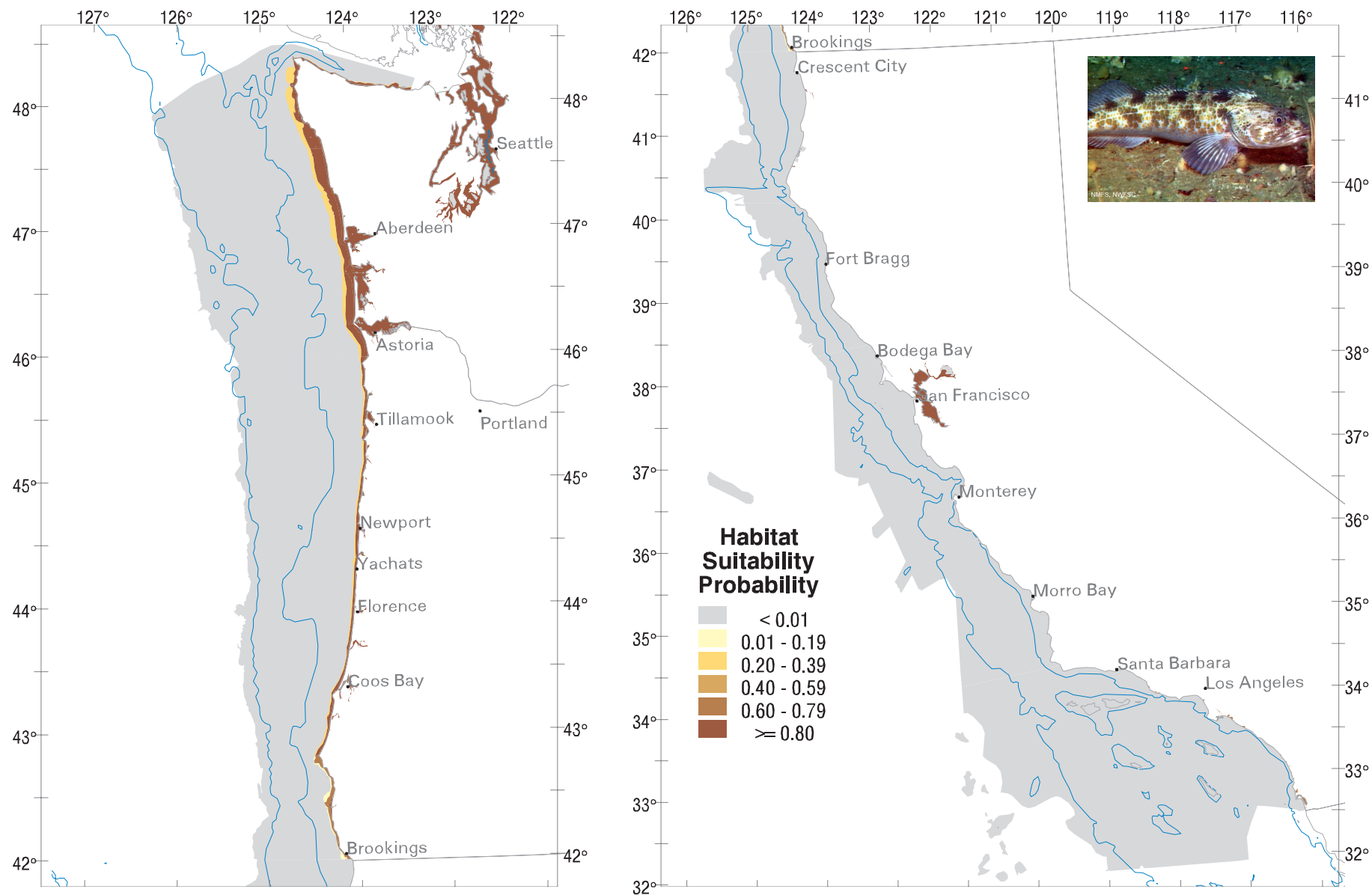
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Lingcod - Adult



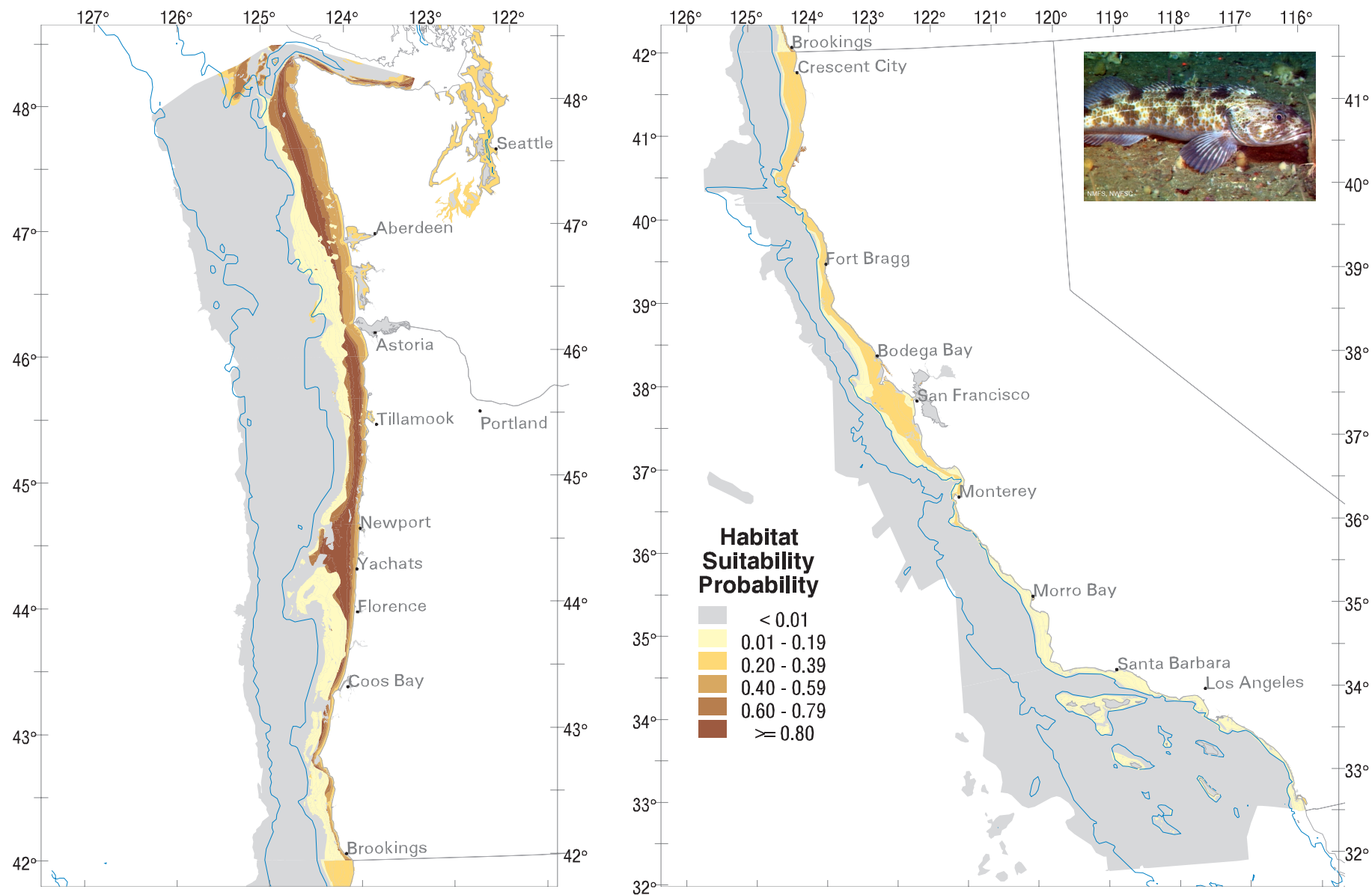
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey

Lingcod - Eggs



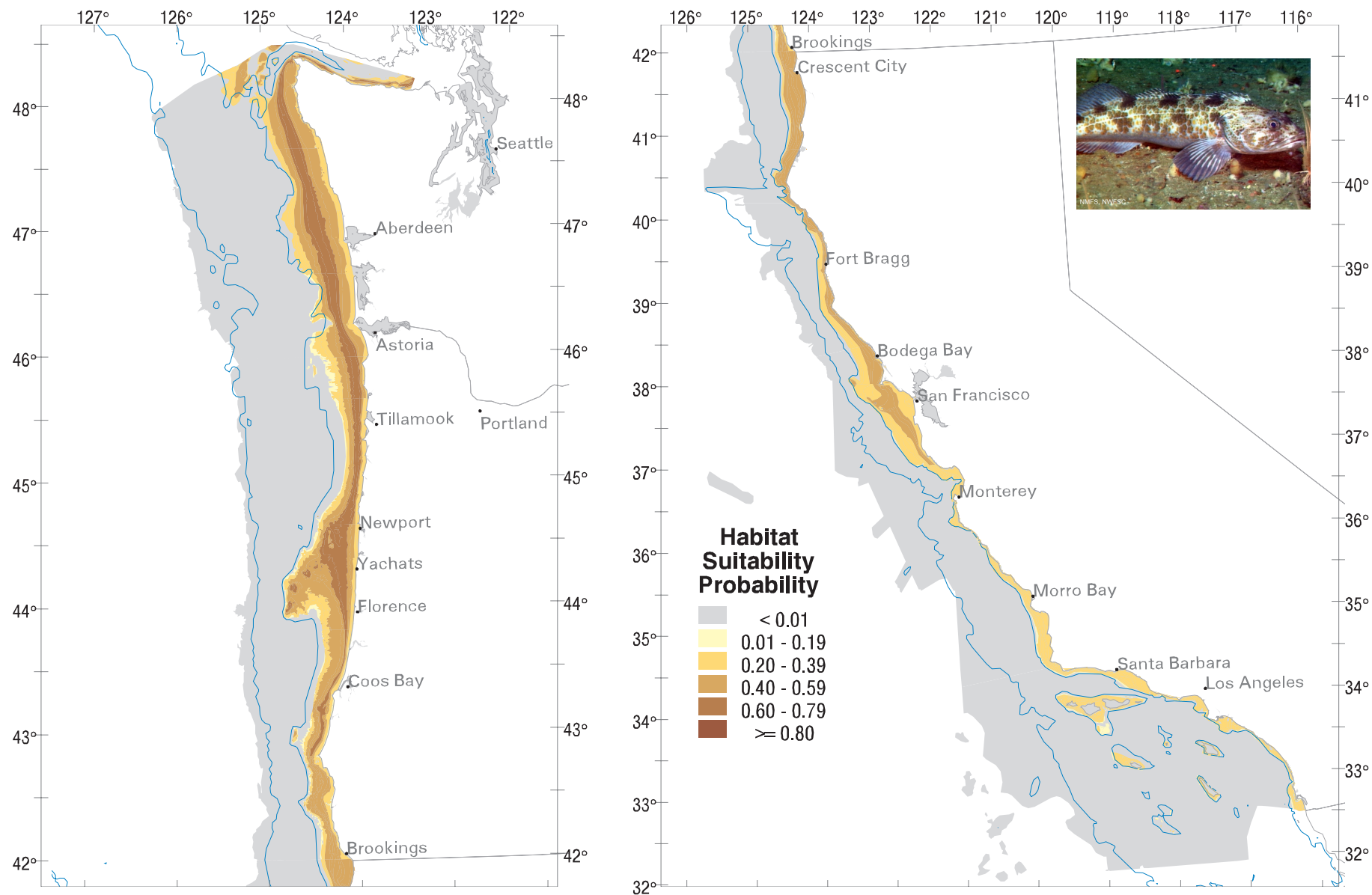
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Lingcod - Juvenile



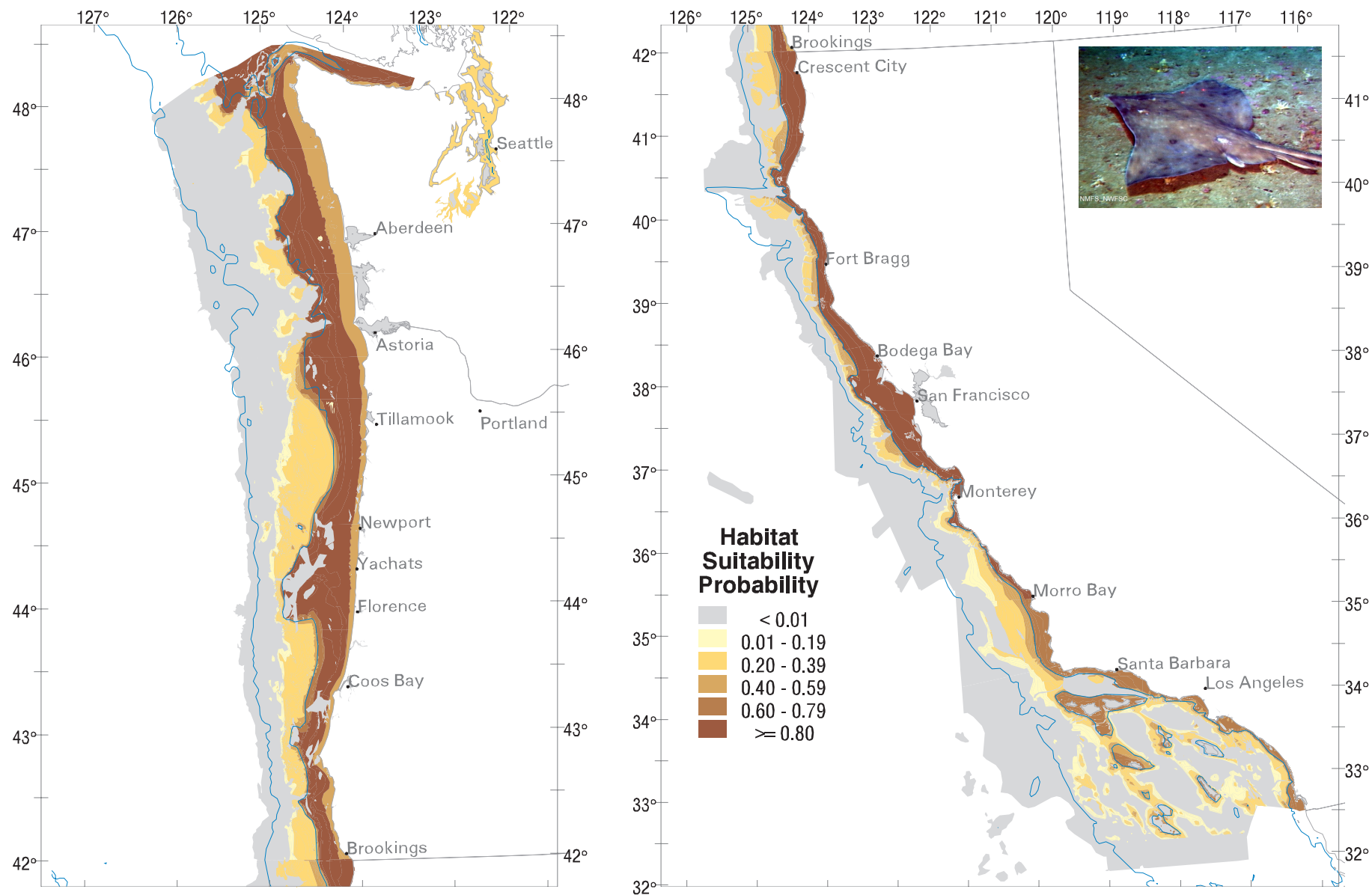
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Lingcod - Larvae



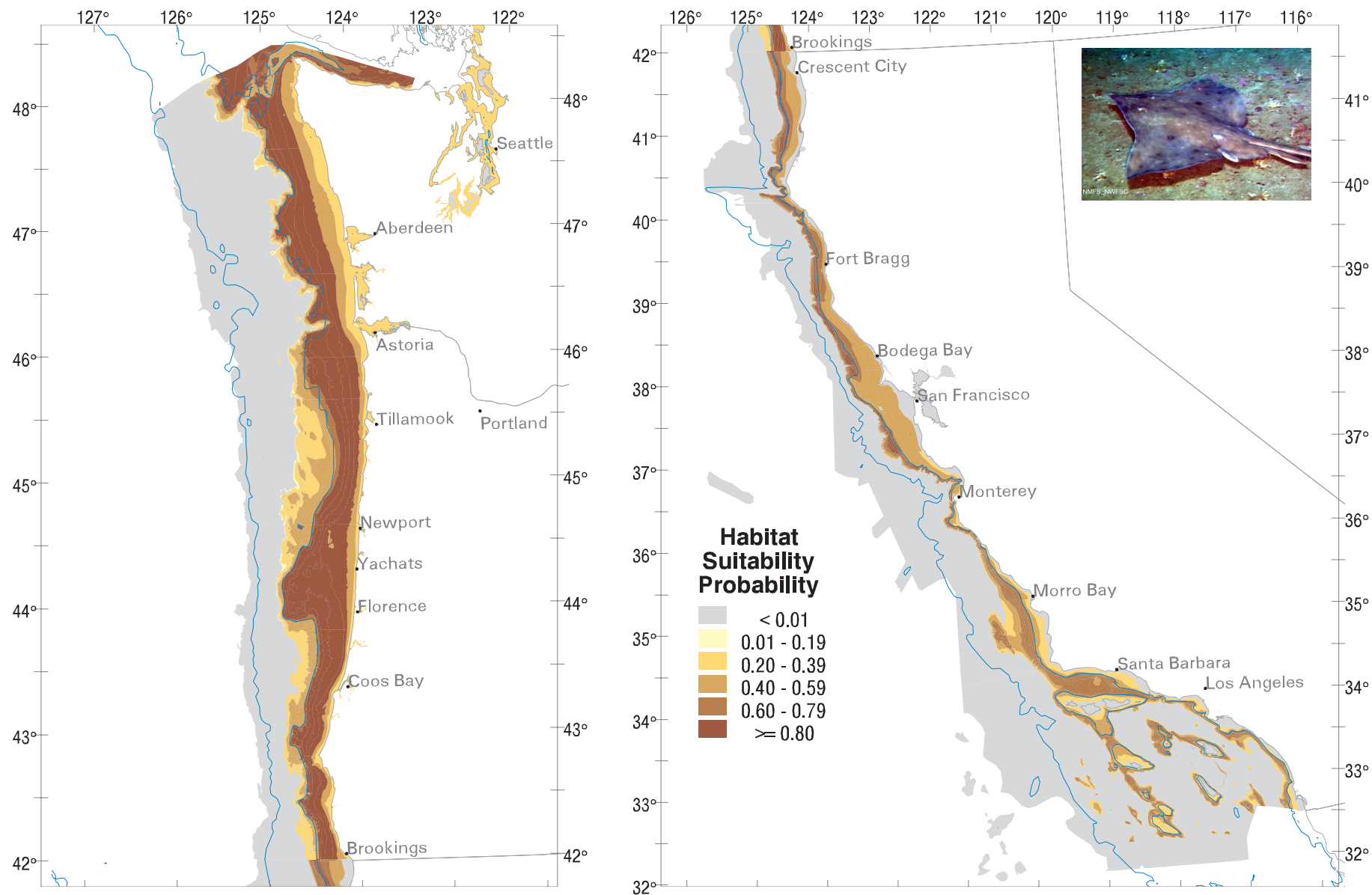
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Longnose Skate - Adult



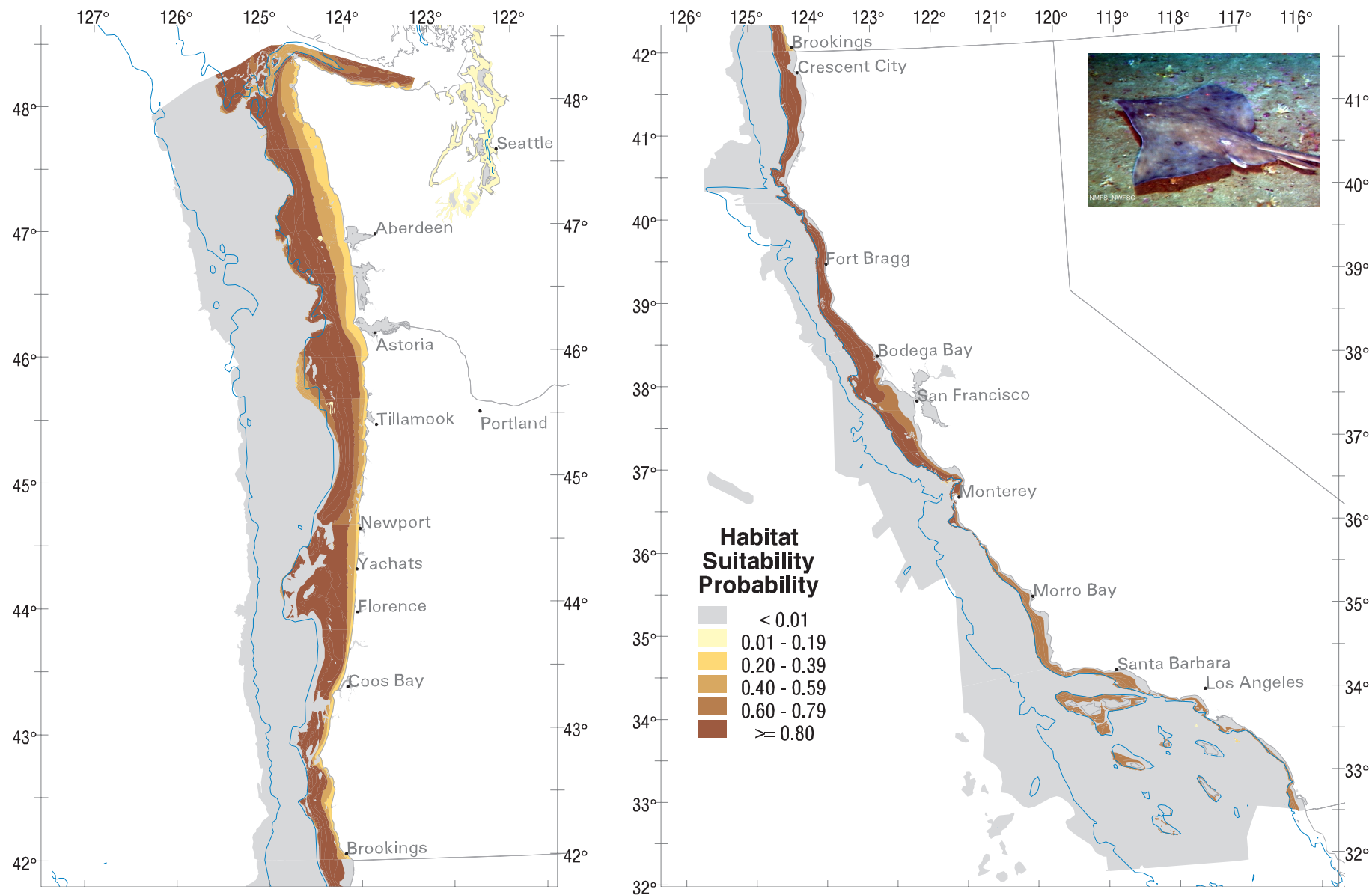
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Longnose Skate - Eggs



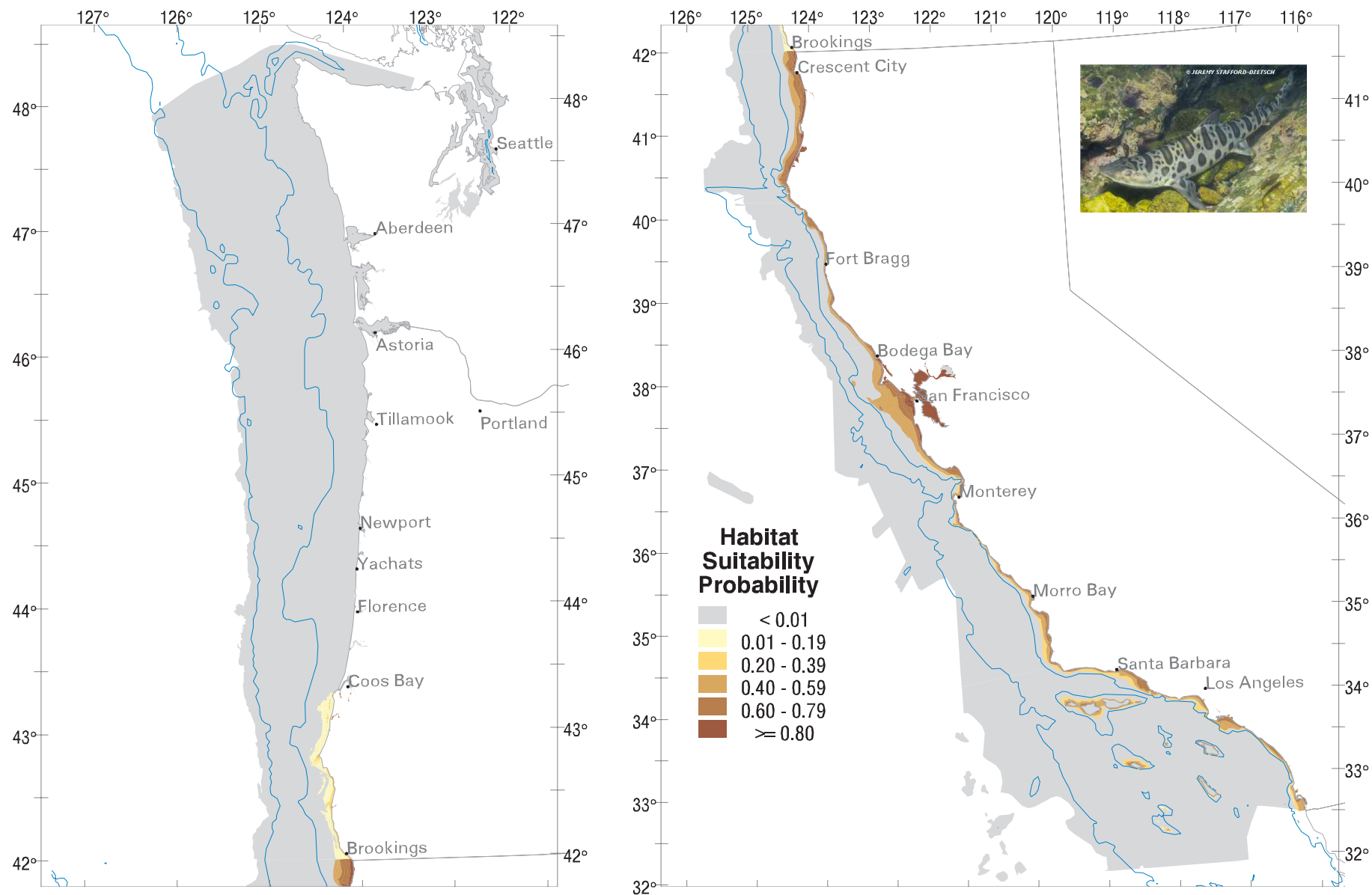
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Longnose Skate - Juvenile



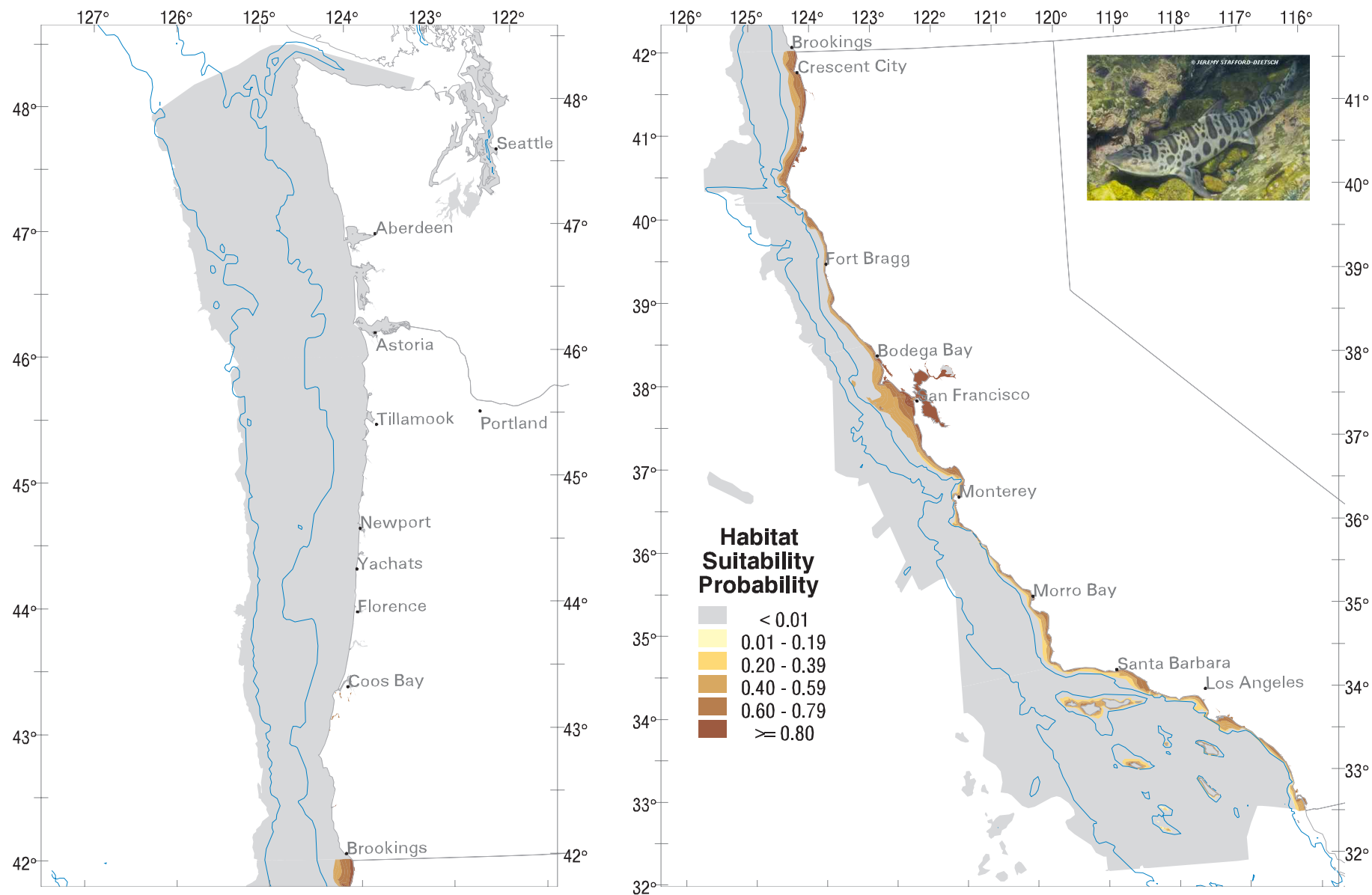
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Leopard Shark - Adult



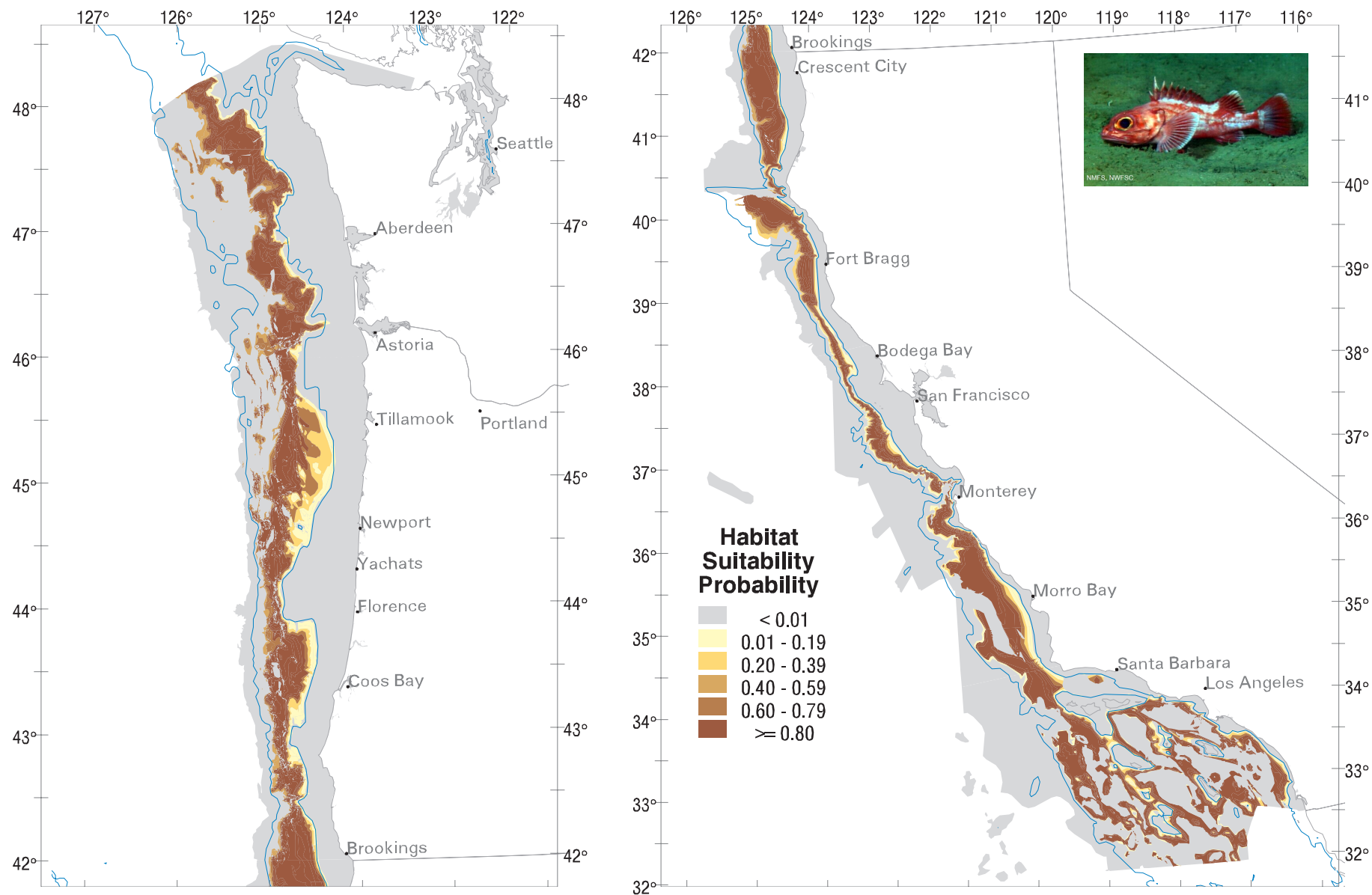
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Leopard Shark - Juvenile



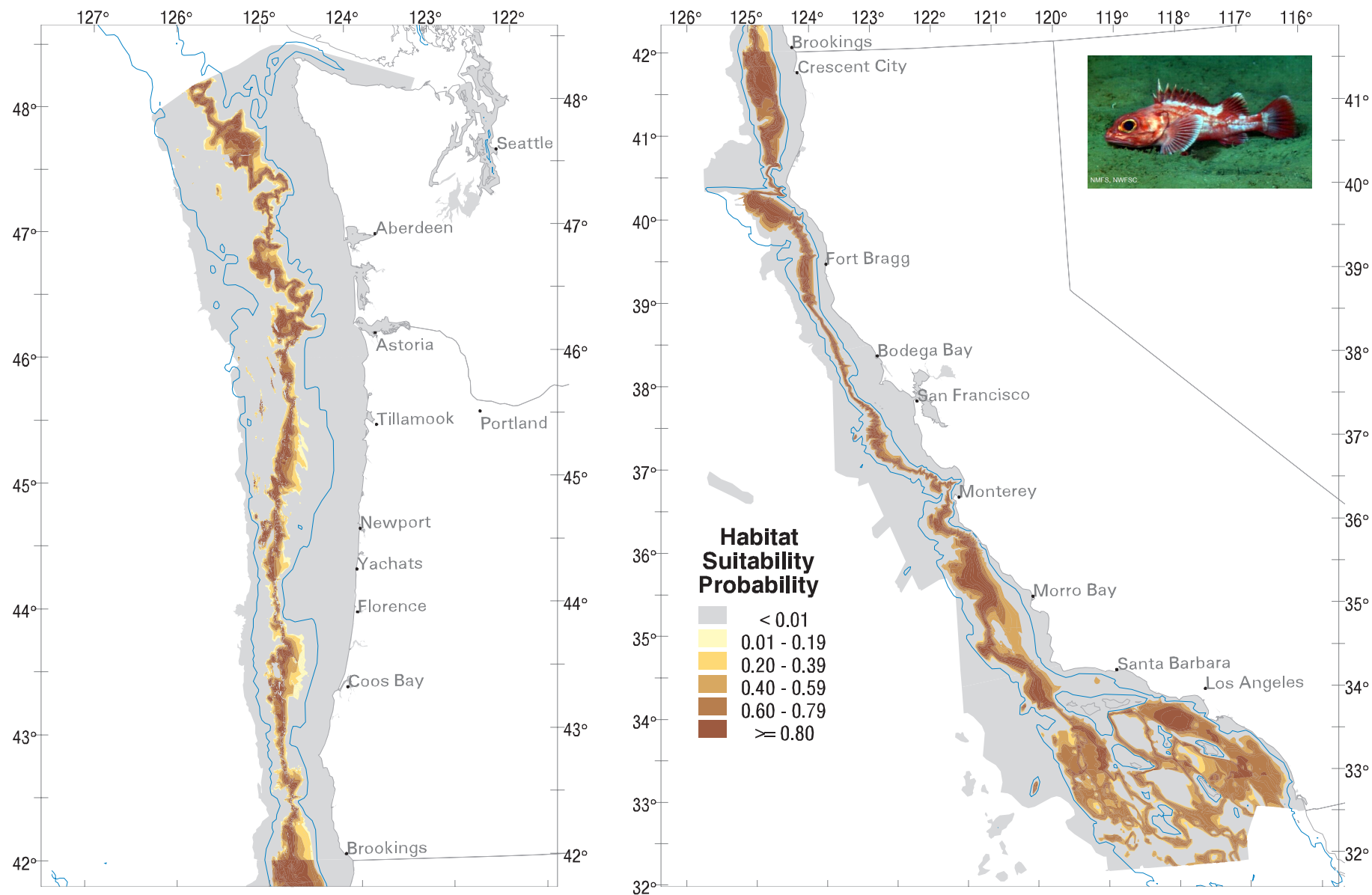
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Longspine Thornyhead - Adult



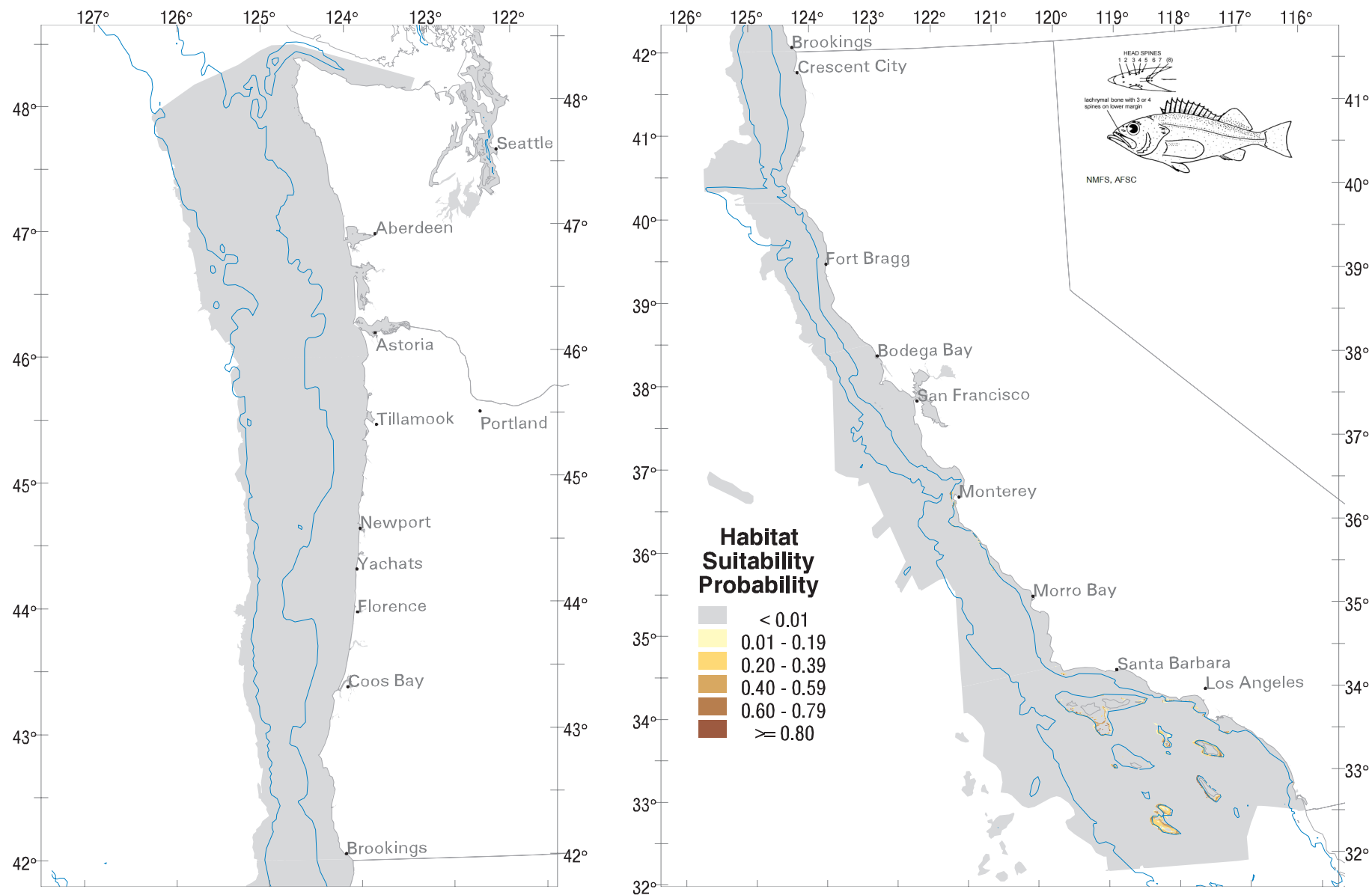
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 02, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: 'HUD & Survey'*

Longspine Thornyhead - Juvenile



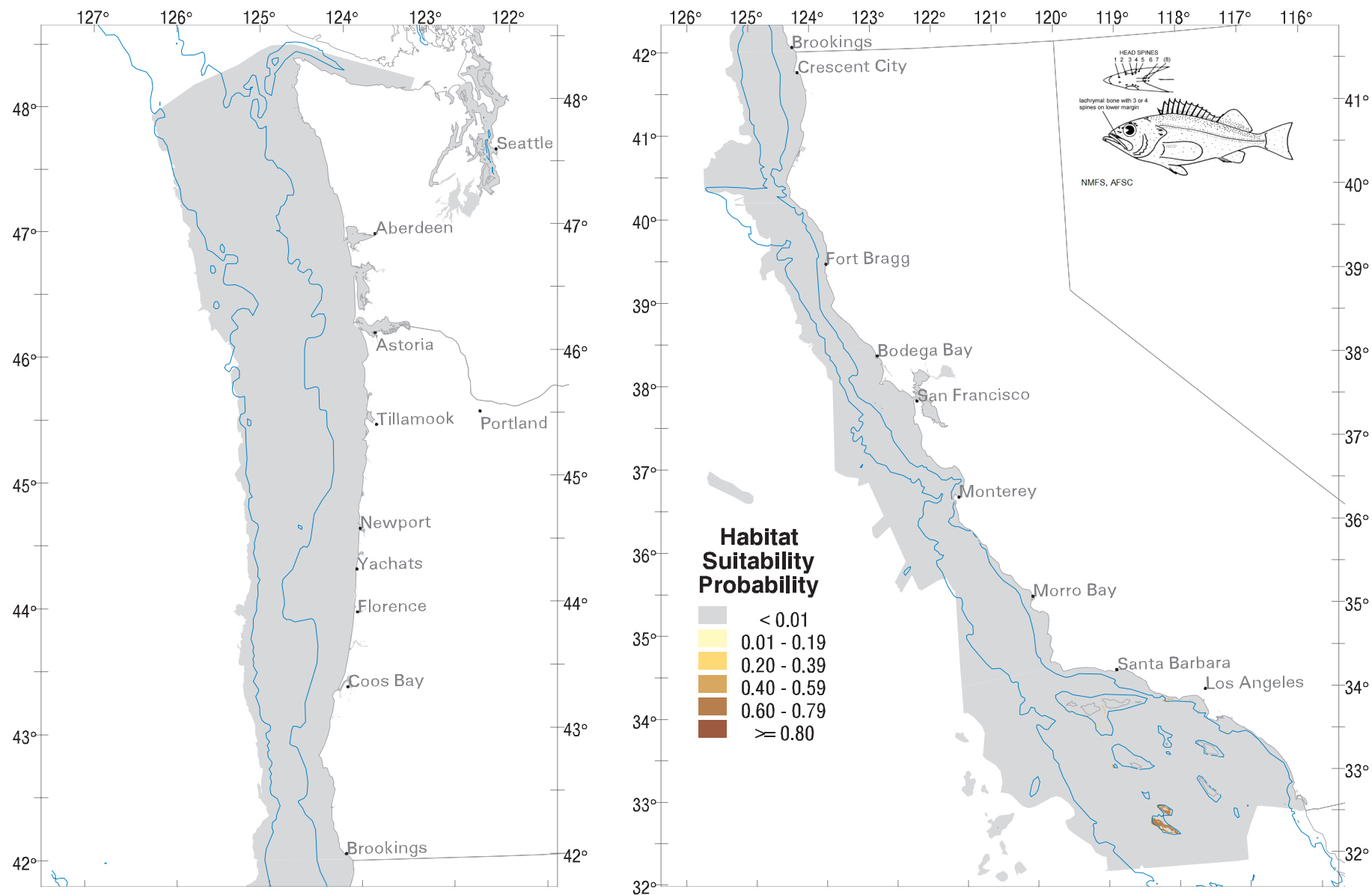
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Mexican Rockfish - Adult



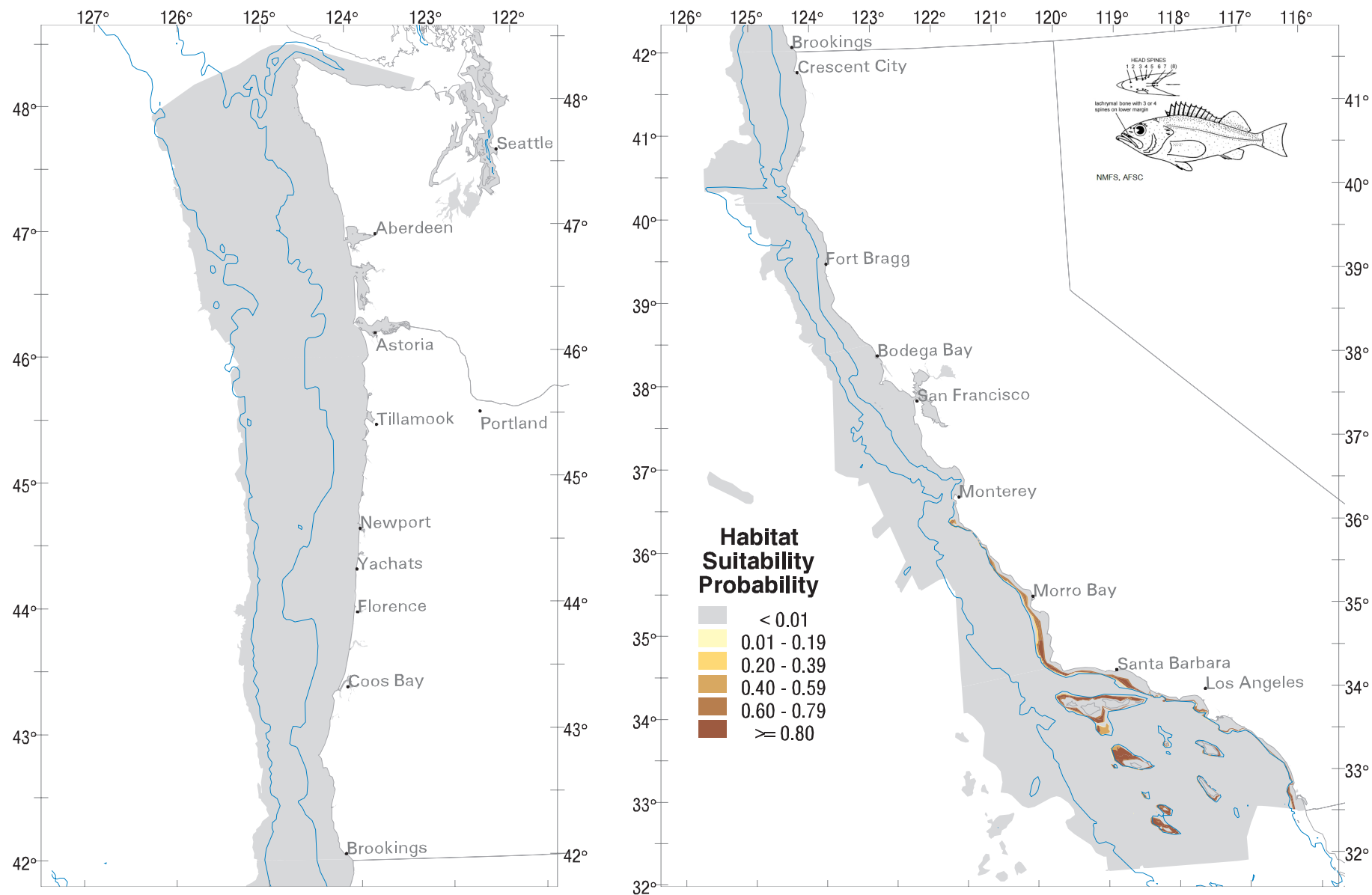
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Mexican Rockfish - Juvenile



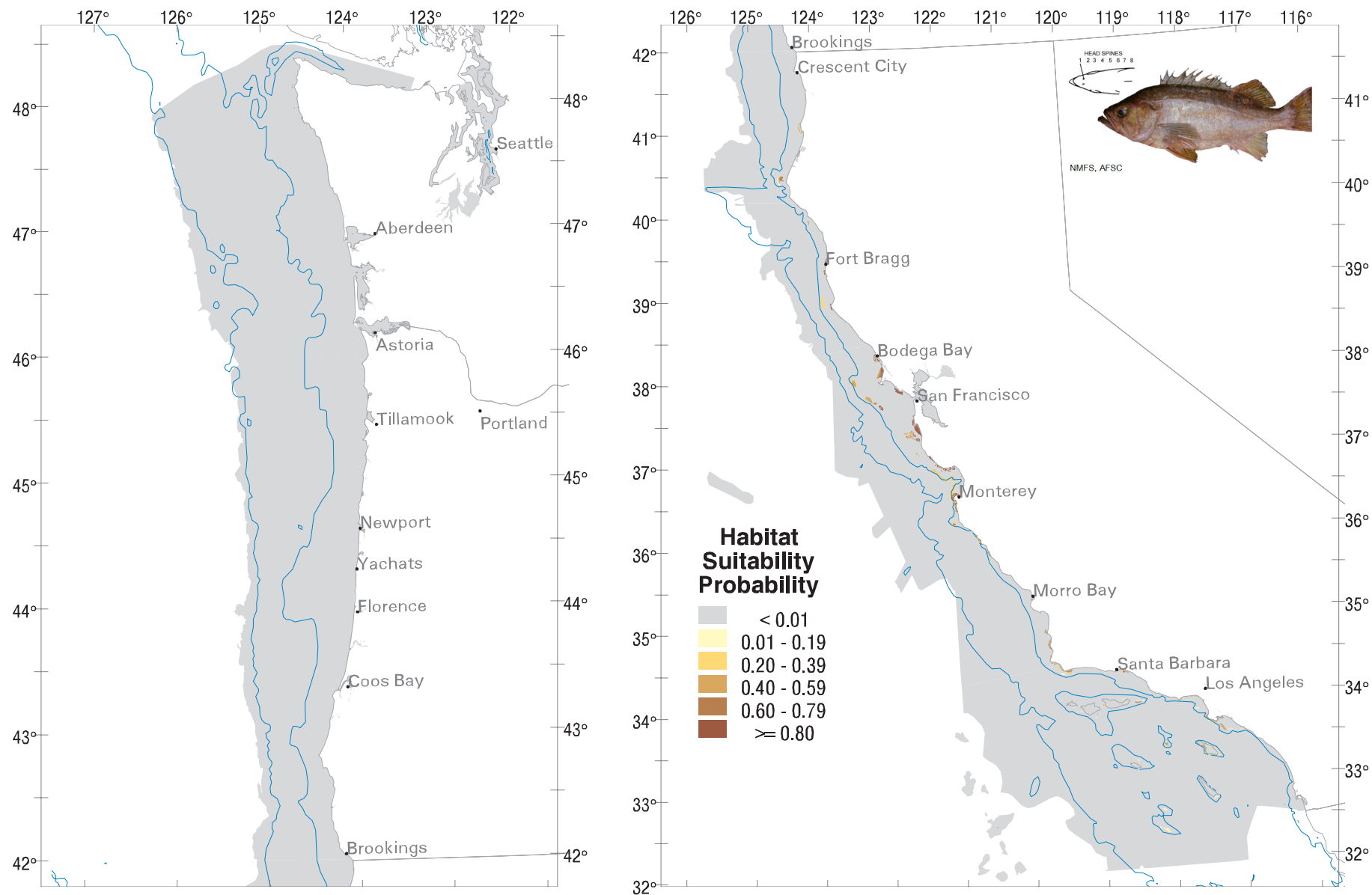
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Mexican Rockfish - Larvae



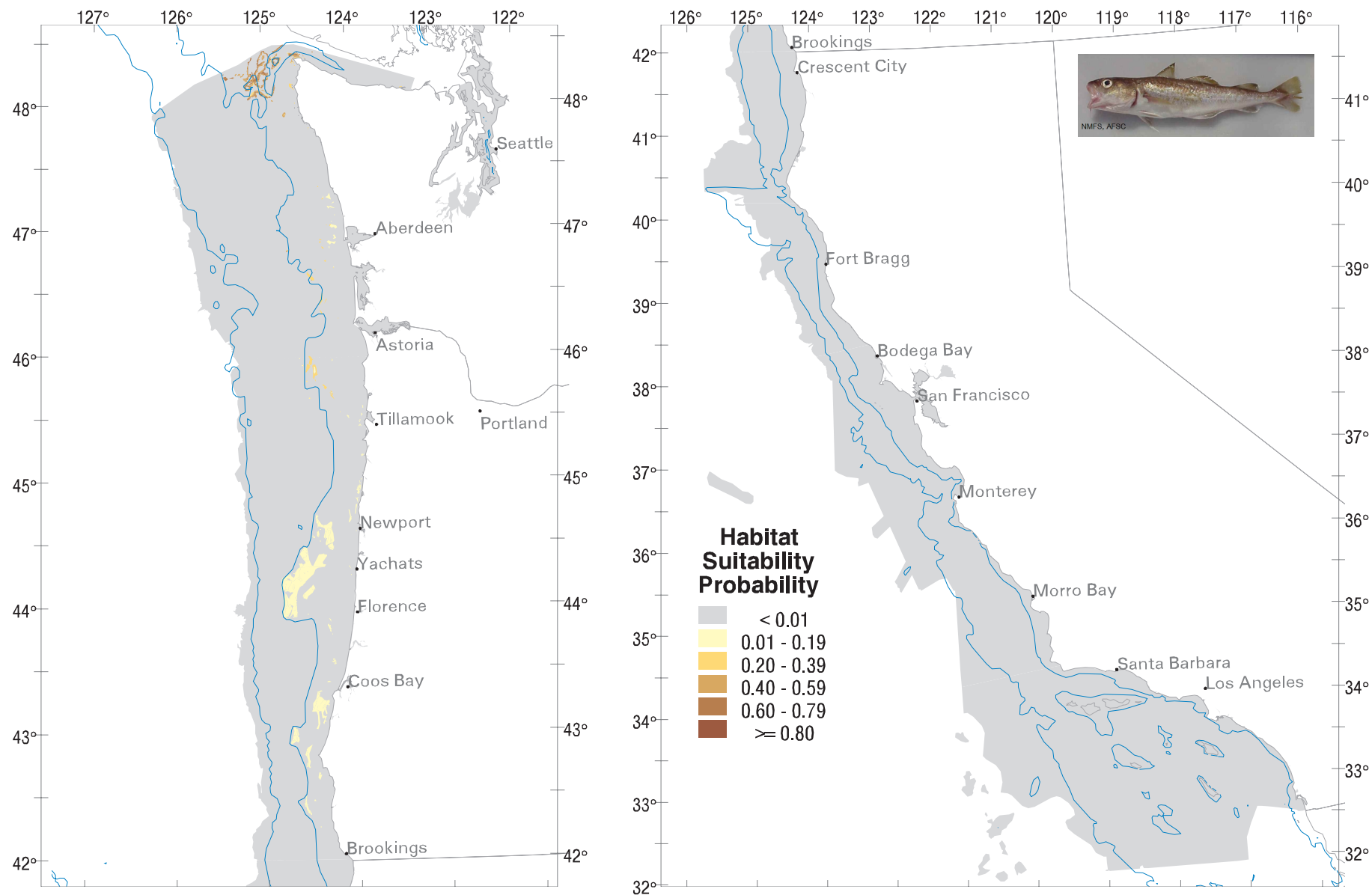
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Olive Rockfish - Adult



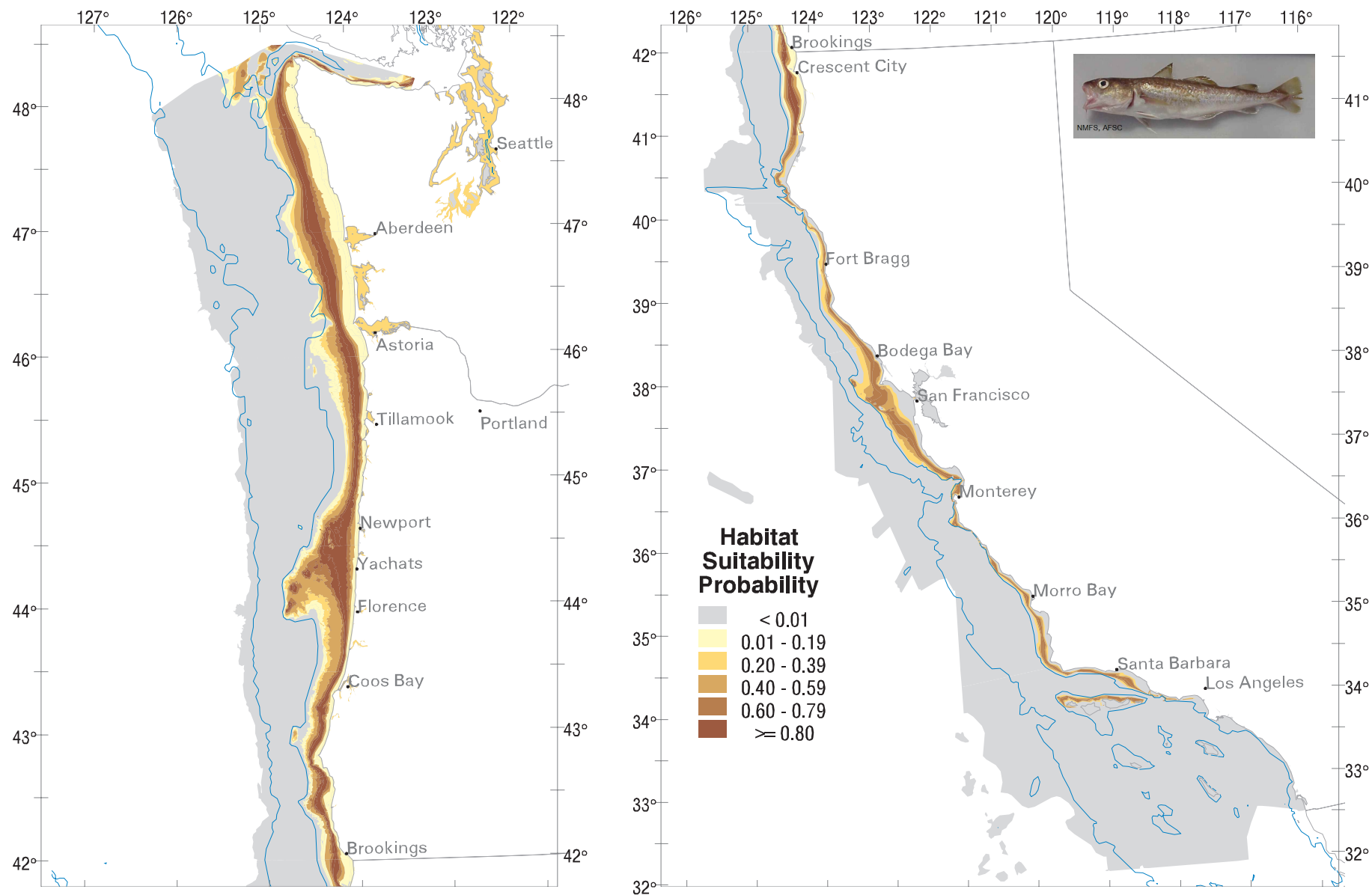
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Pacific Cod - Adult



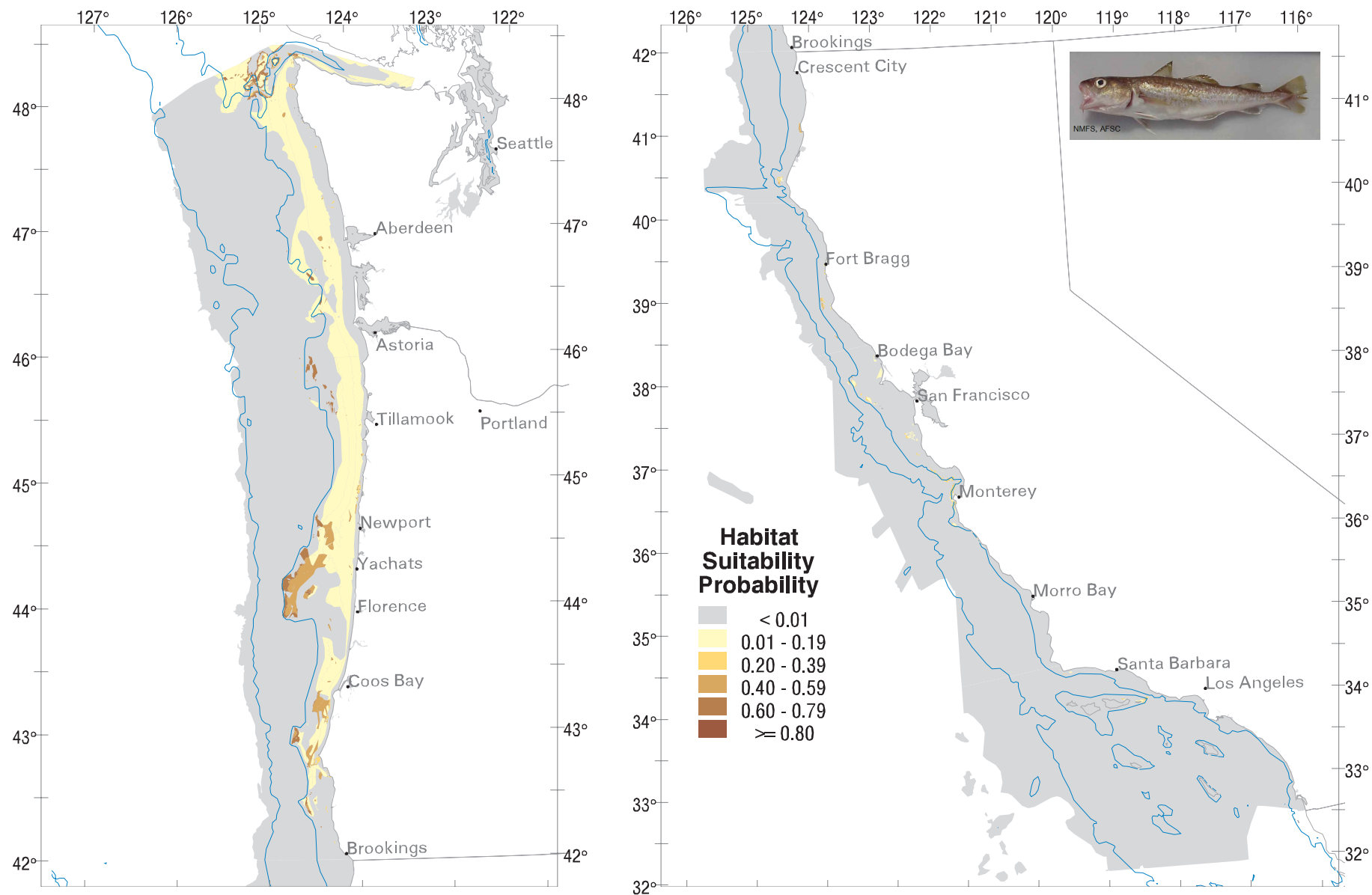
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey*

Pacific Cod - Eggs



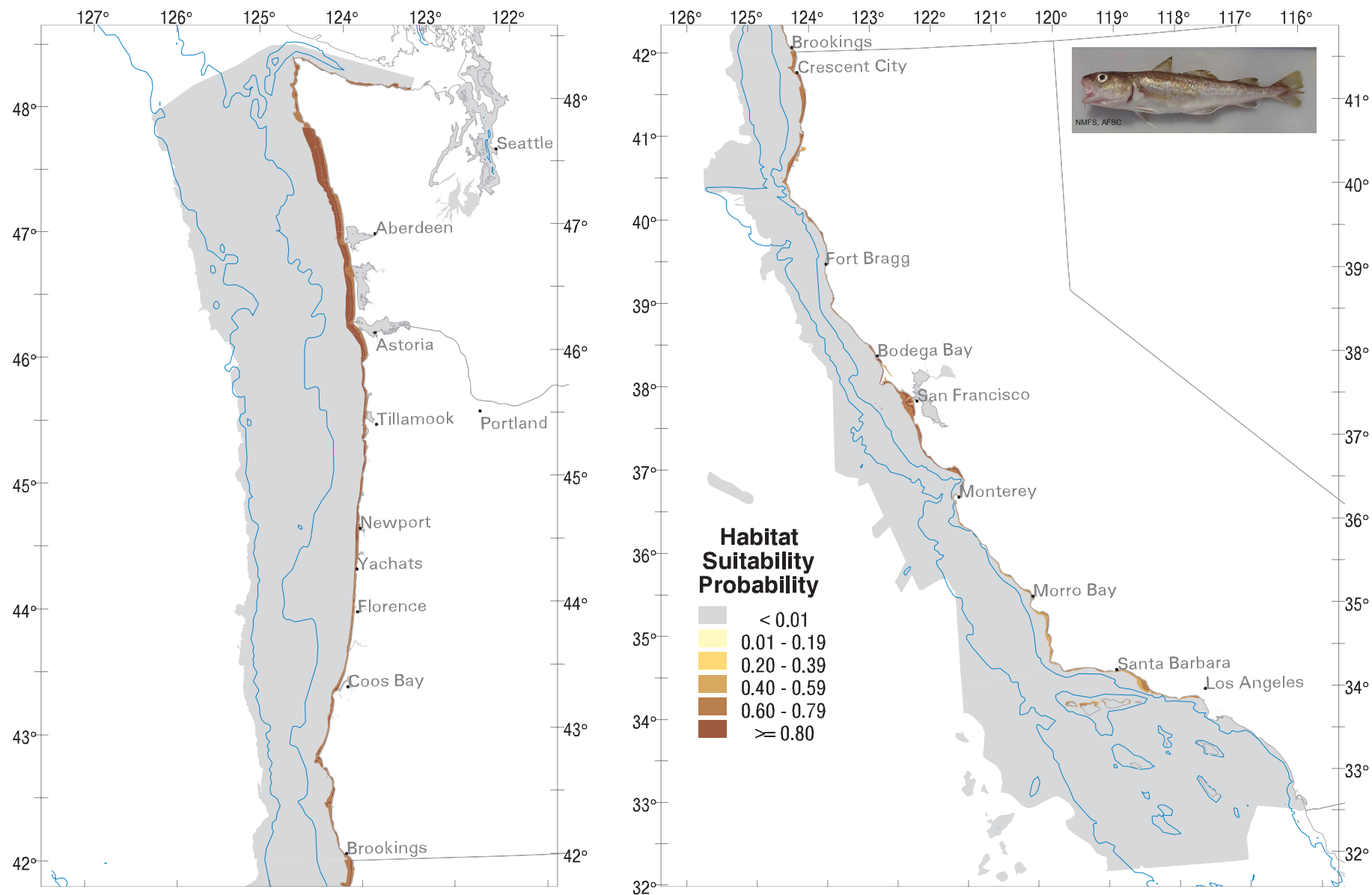
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Pacific Cod - Juvenile



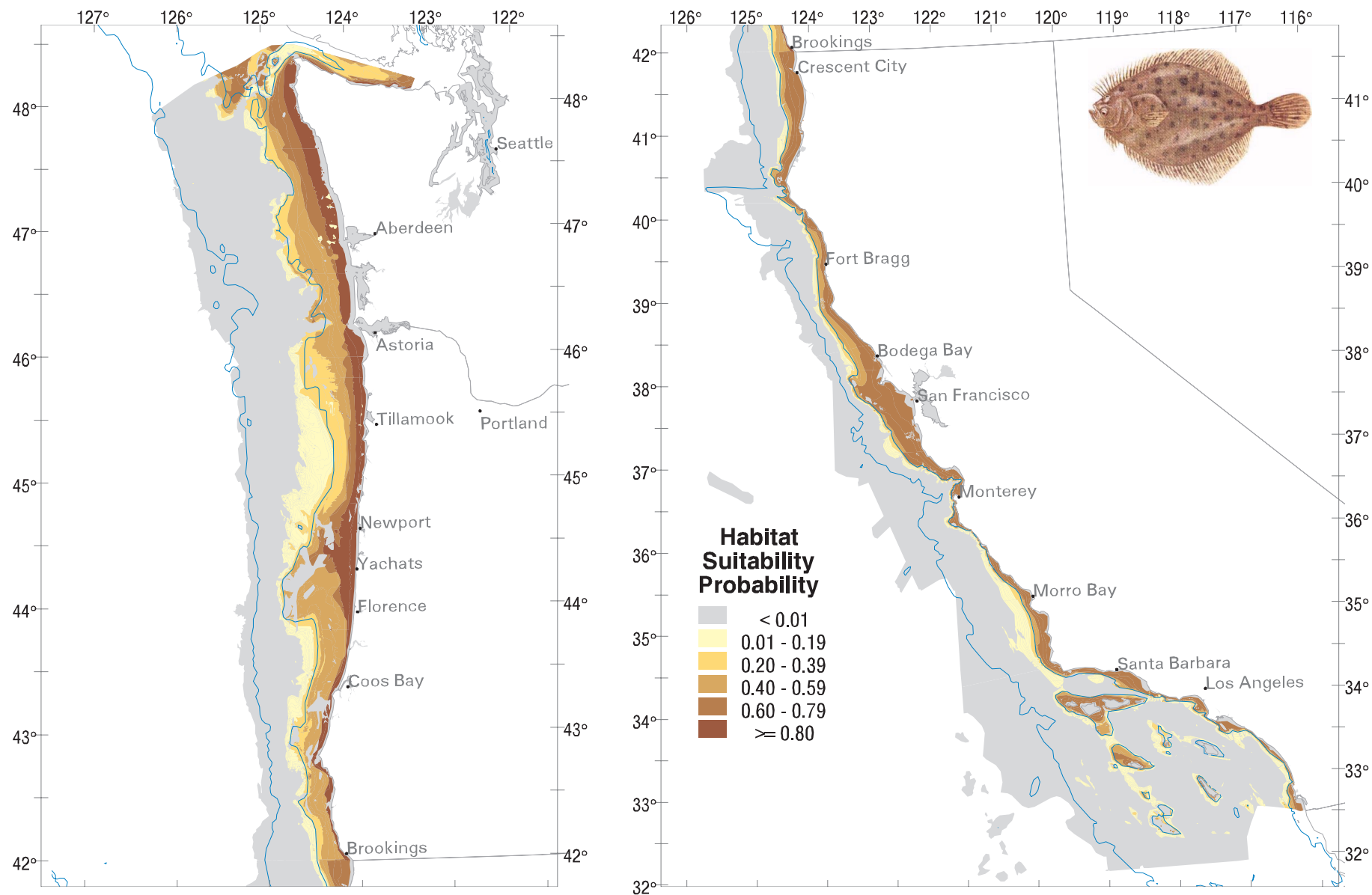
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Pacific Cod - Larvae



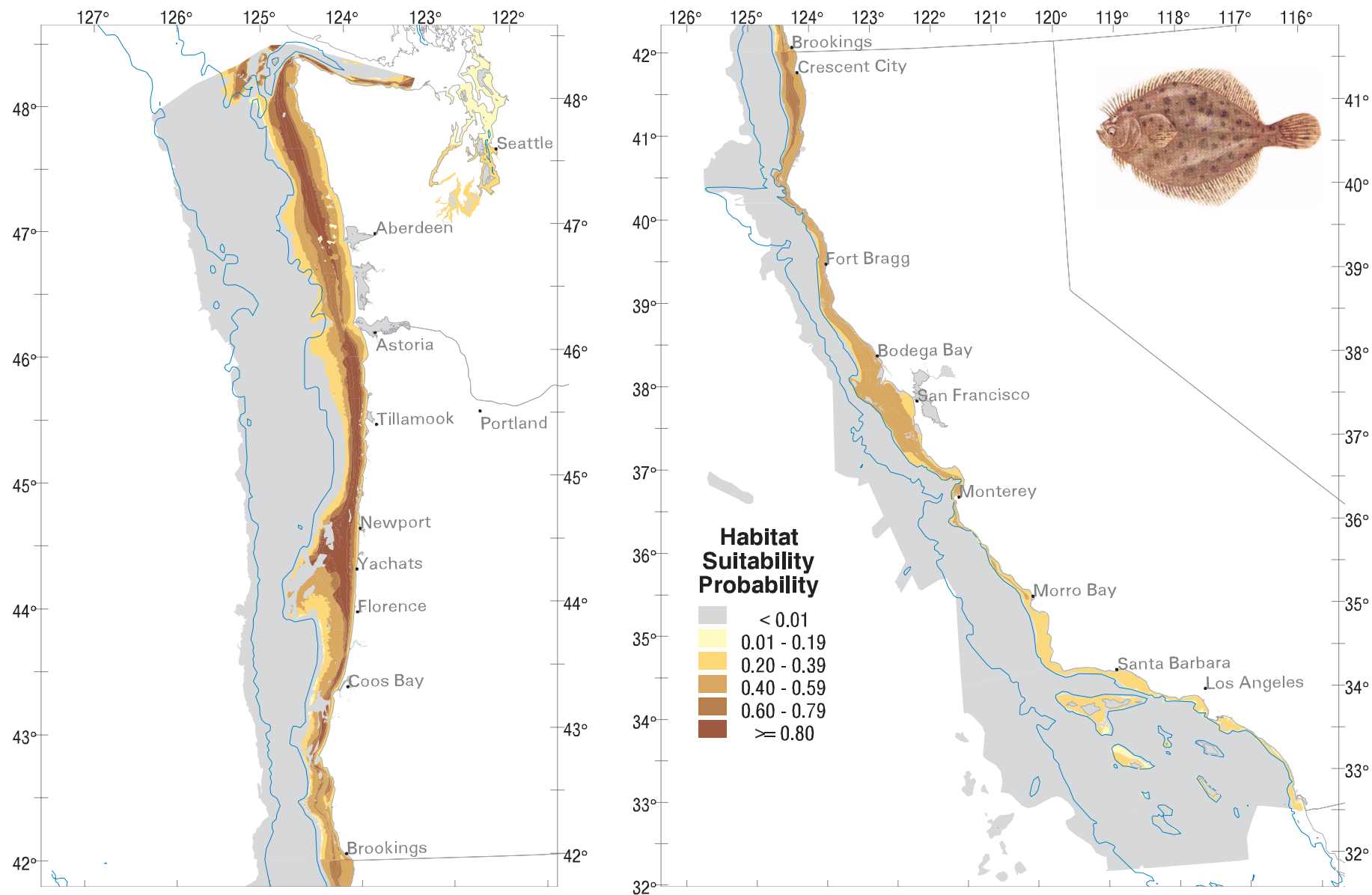
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Petræle Sole - Adult



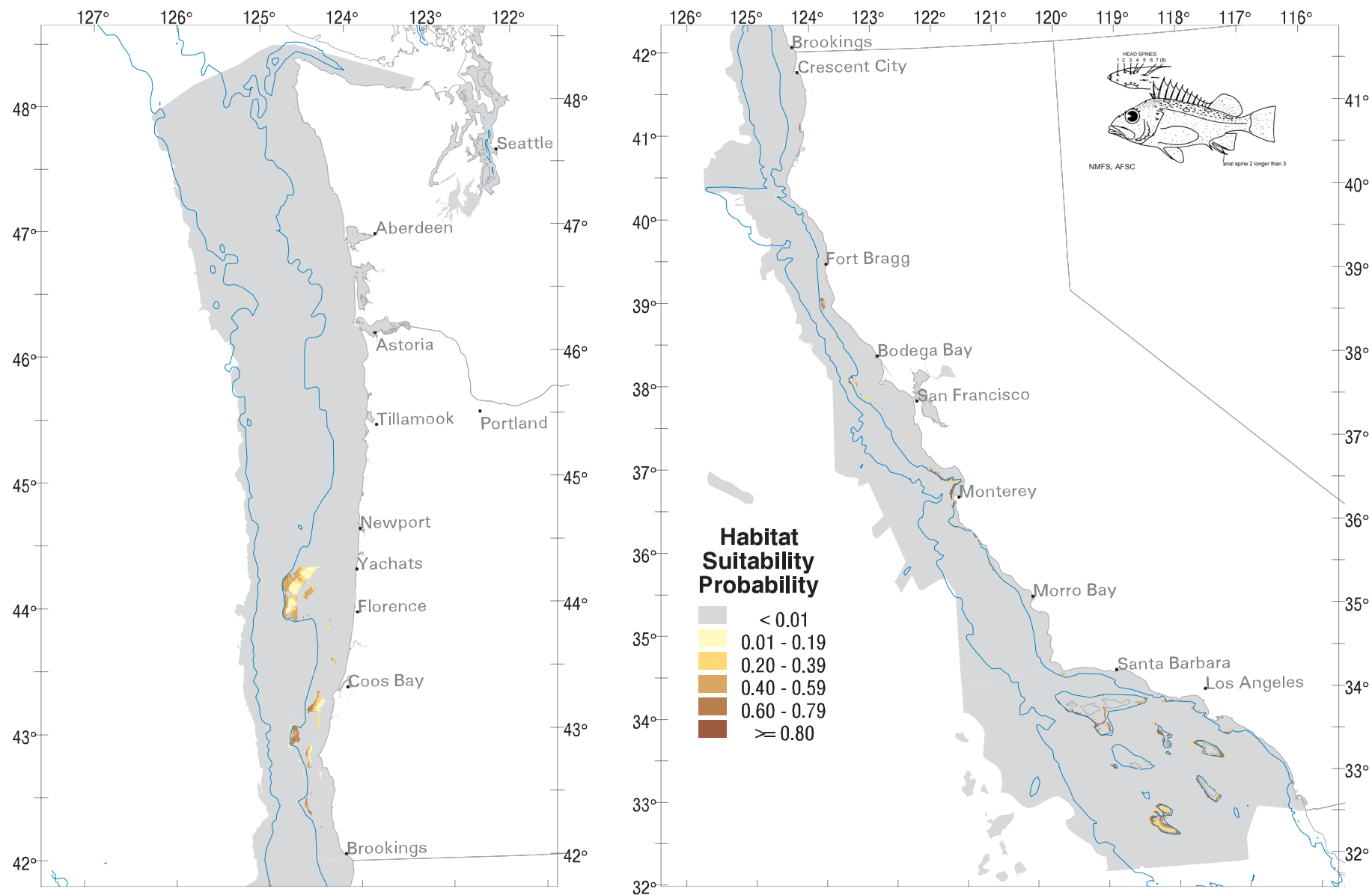
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey+*

Petrale Sole - Juvenile



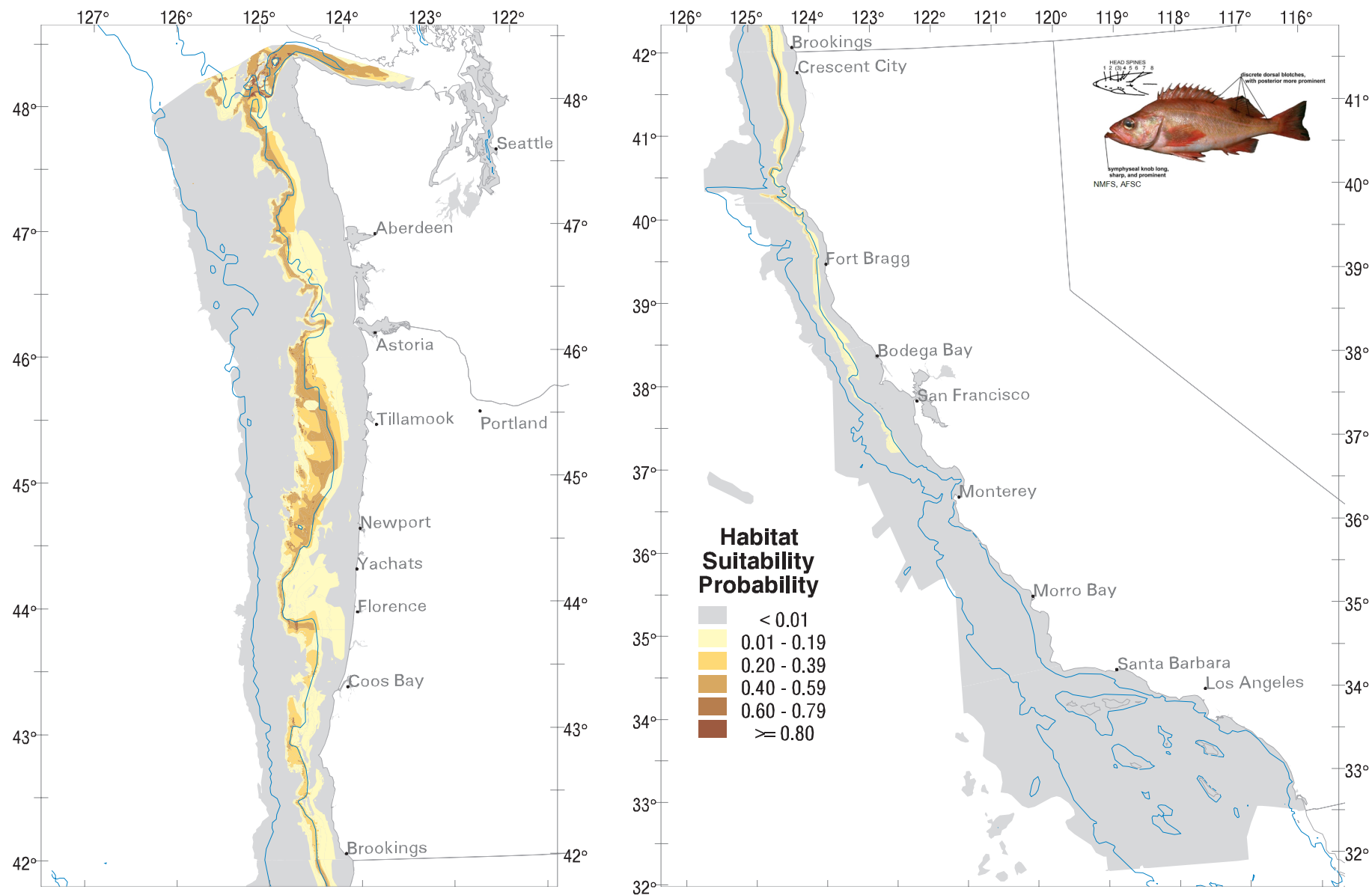
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Pink Rockfish - Adult



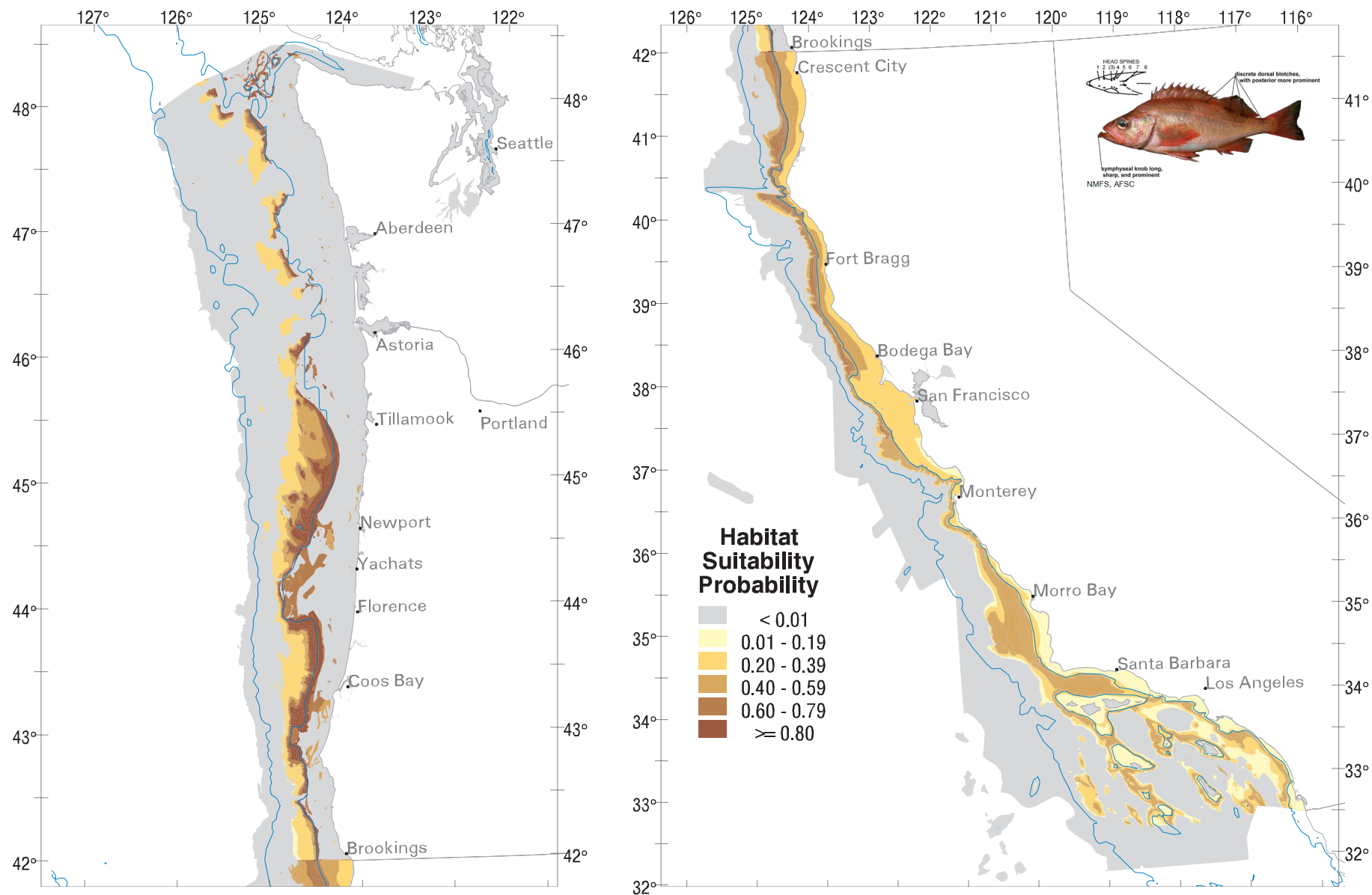
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Pacific Ocean Perch - Adult



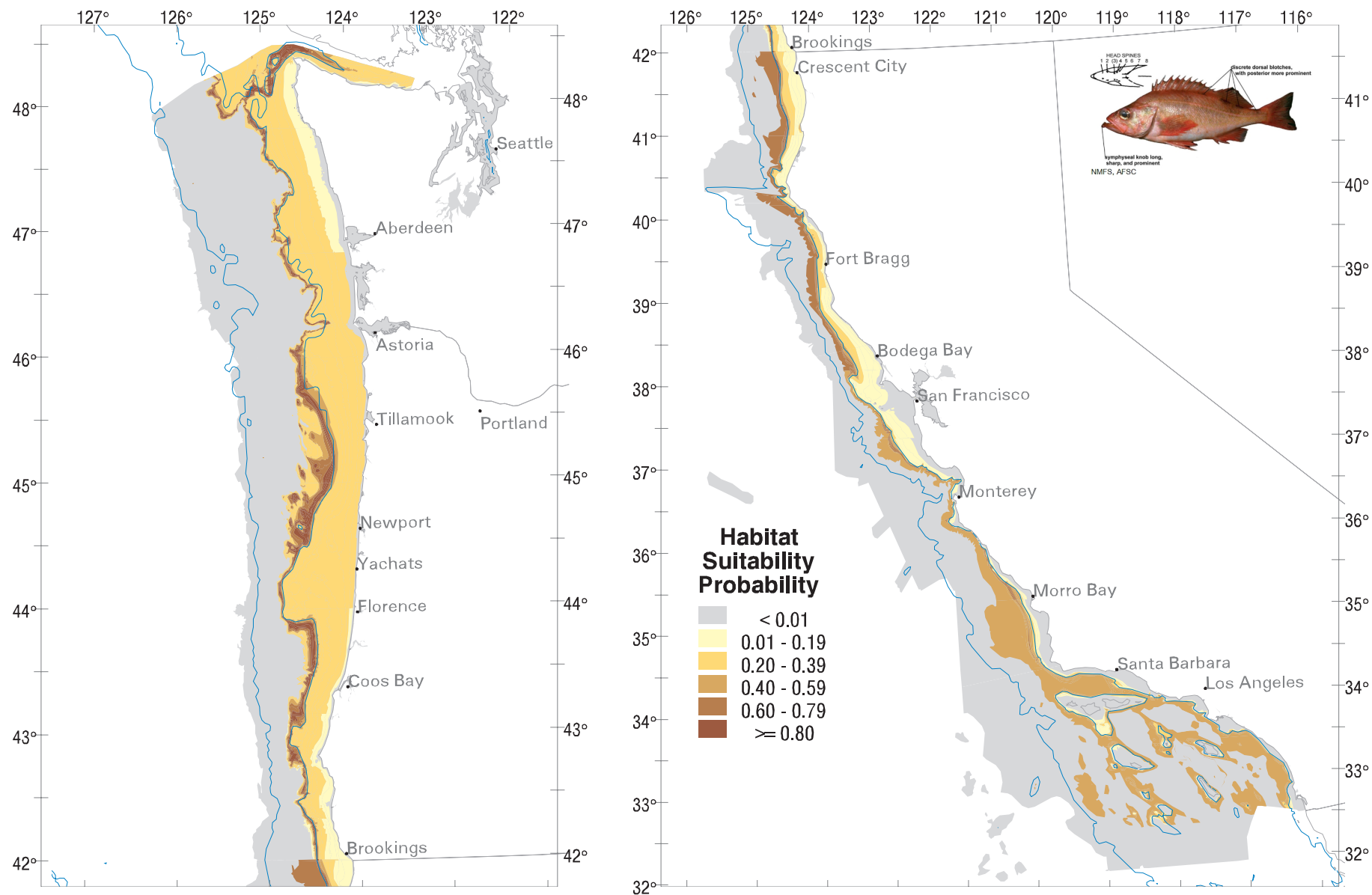
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey

Pacific Ocean Perch - Juvenile



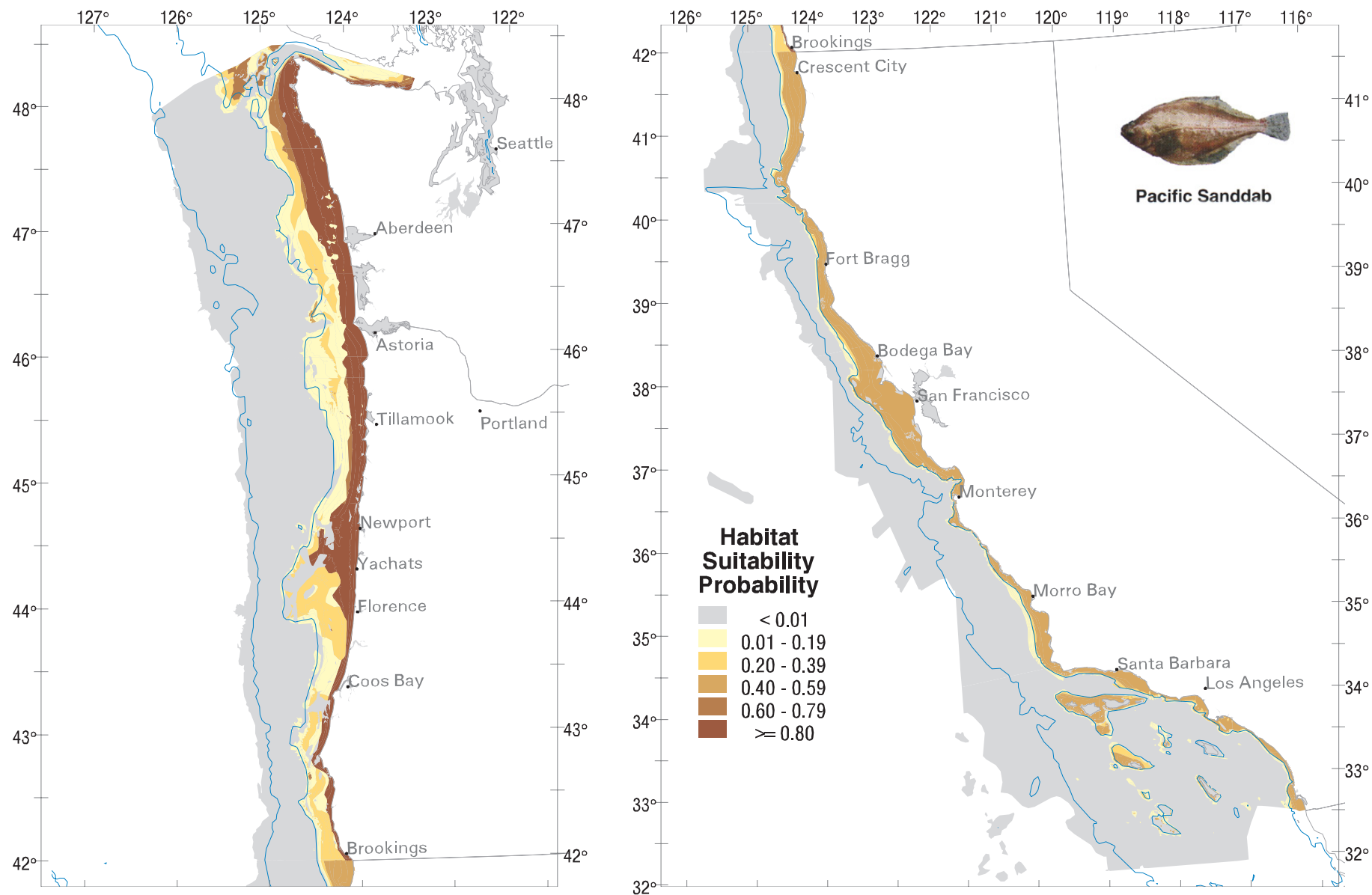
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Pacific Ocean Perch - Larvae



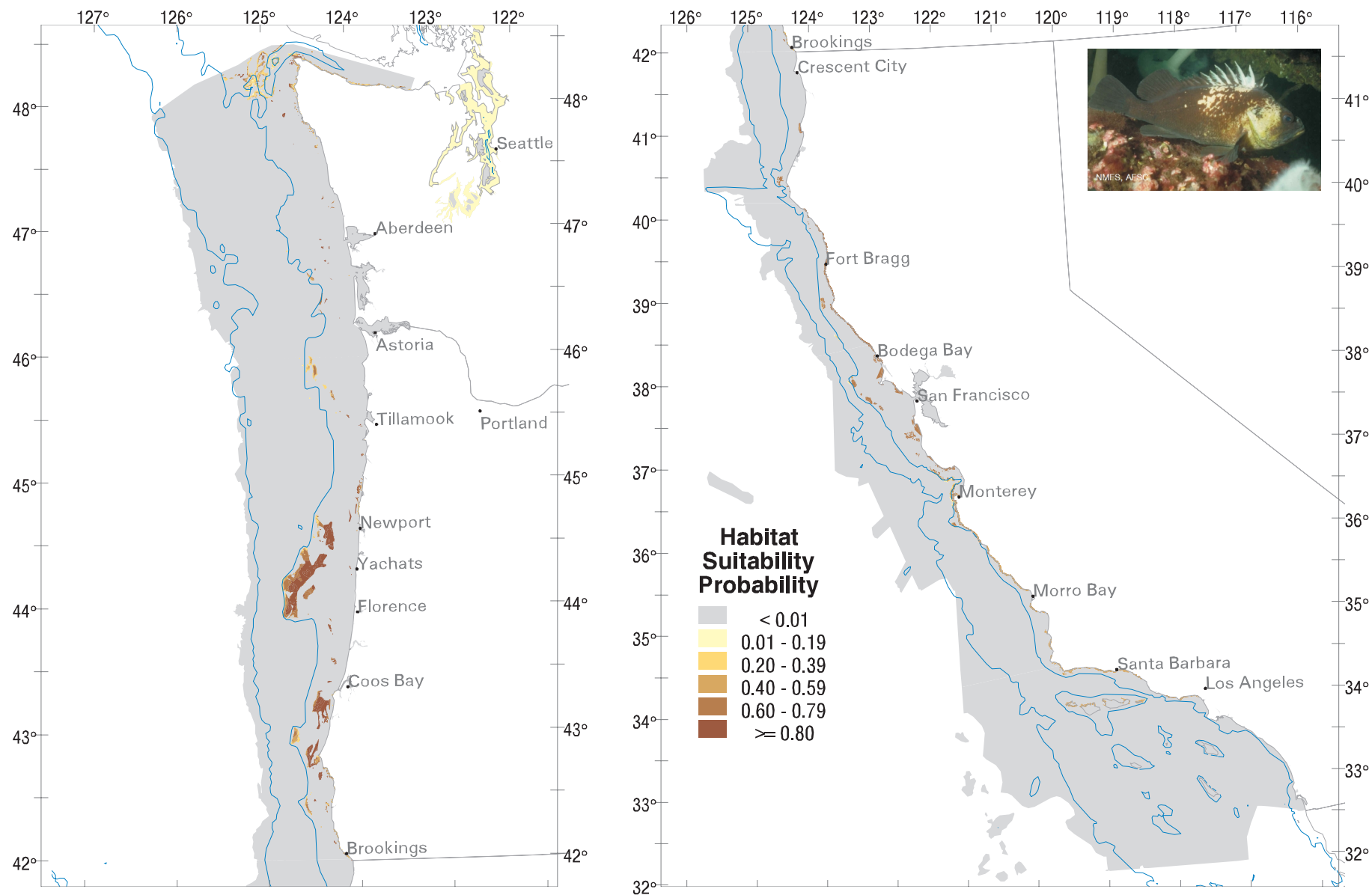
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Pacific Sanddab - Adult



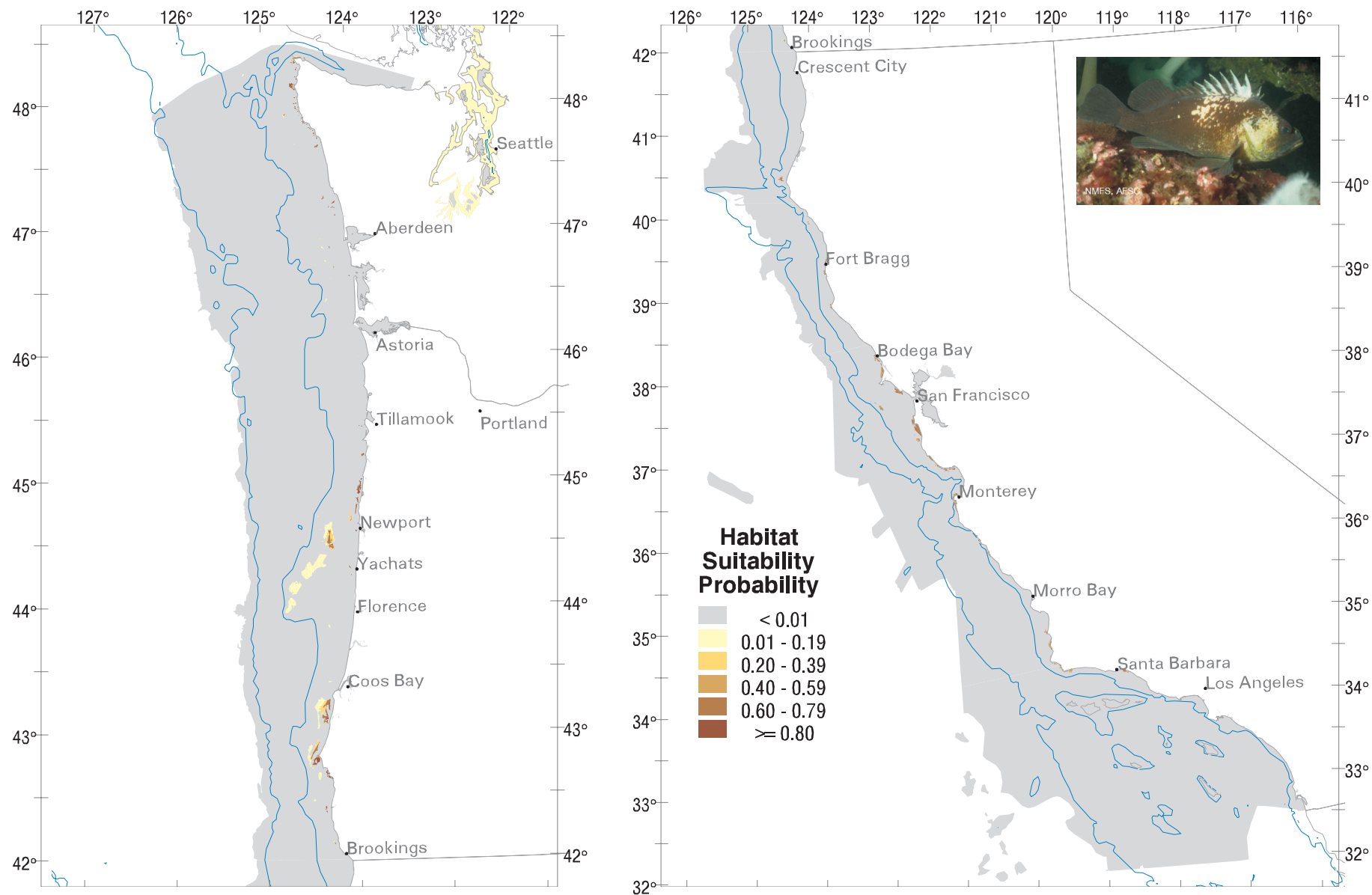
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey+*

Quillback Rockfish - Adult



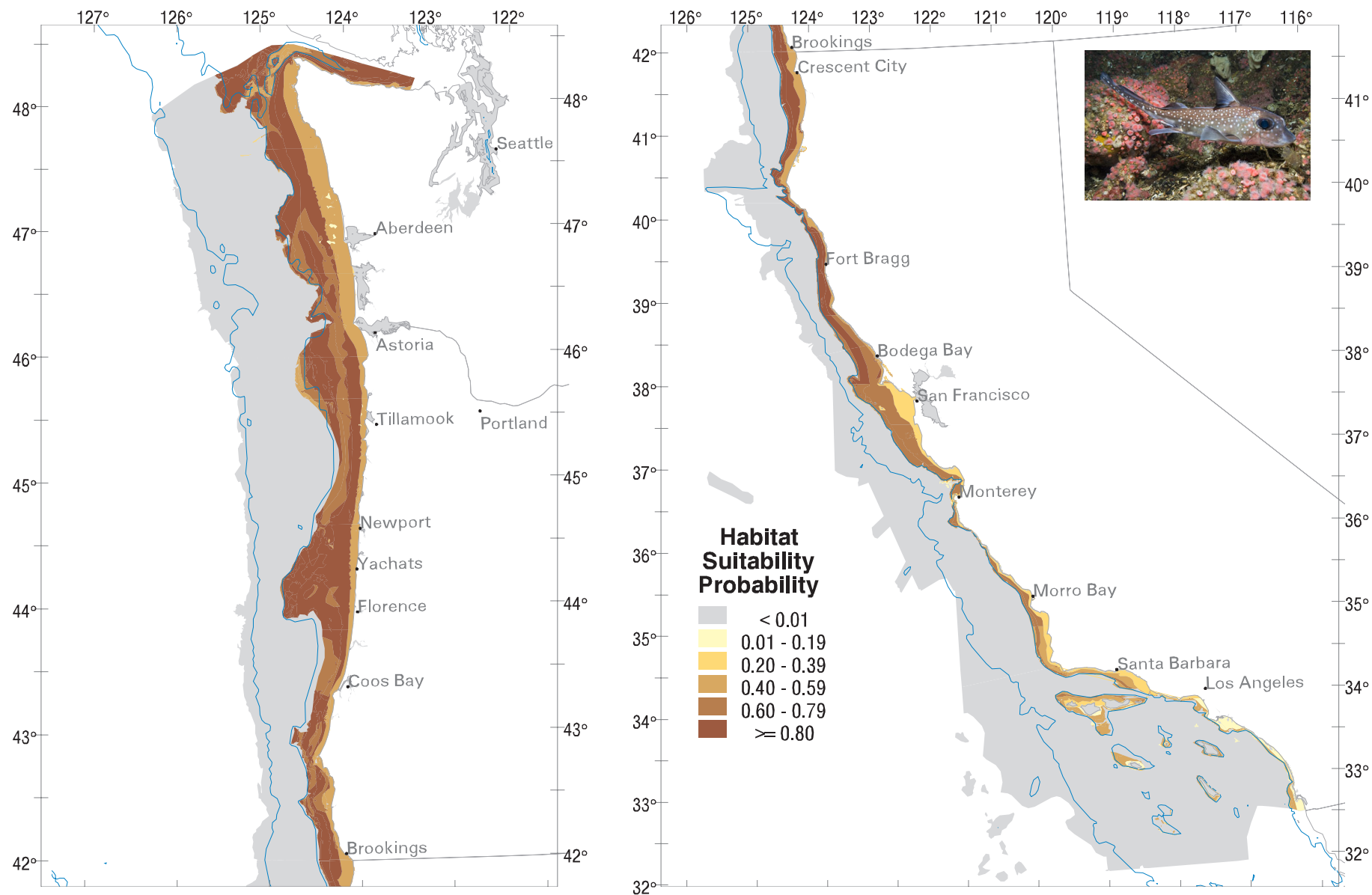
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Quillback Rockfish - Juvenile



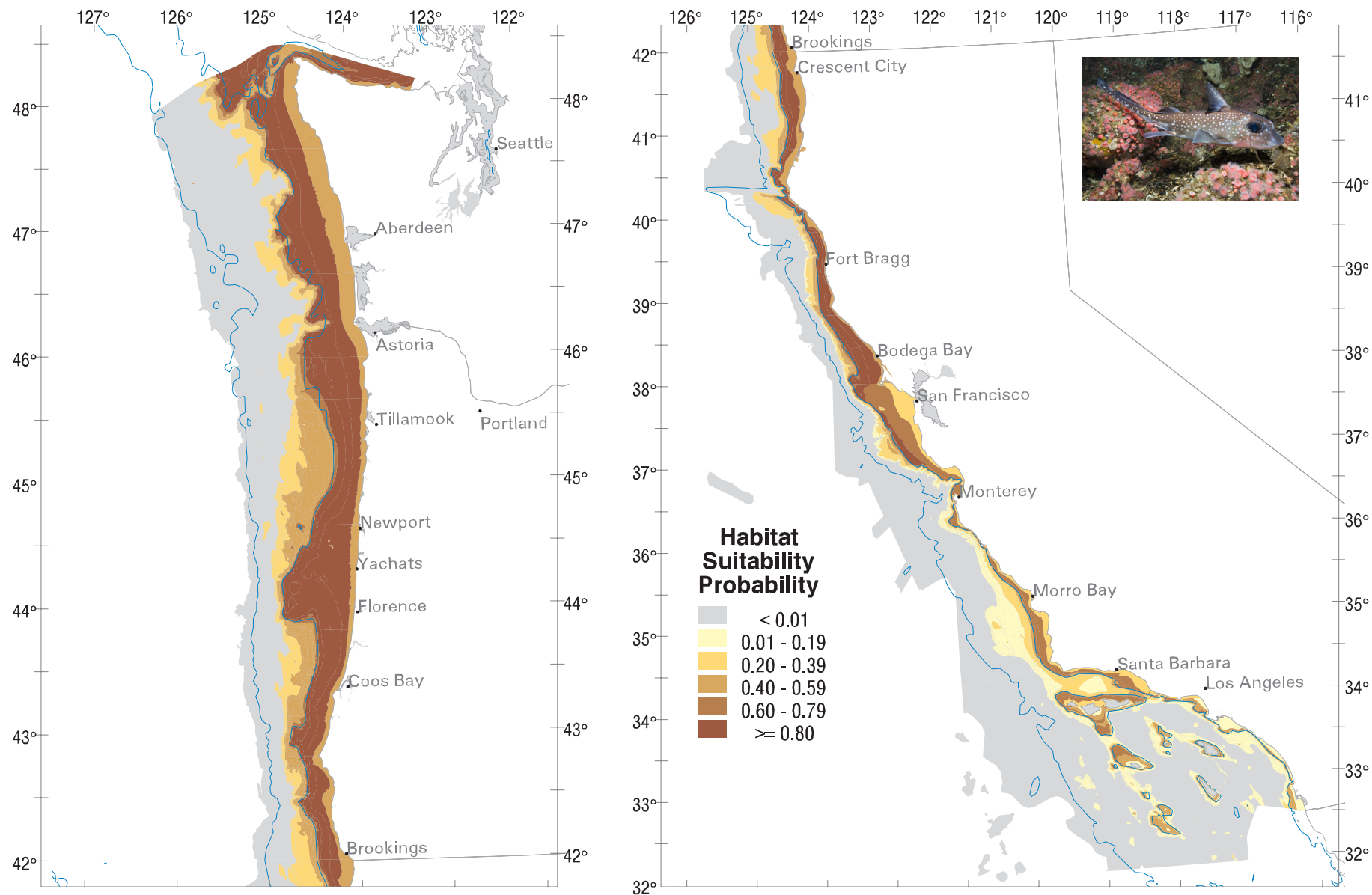
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Ratfish - Adult



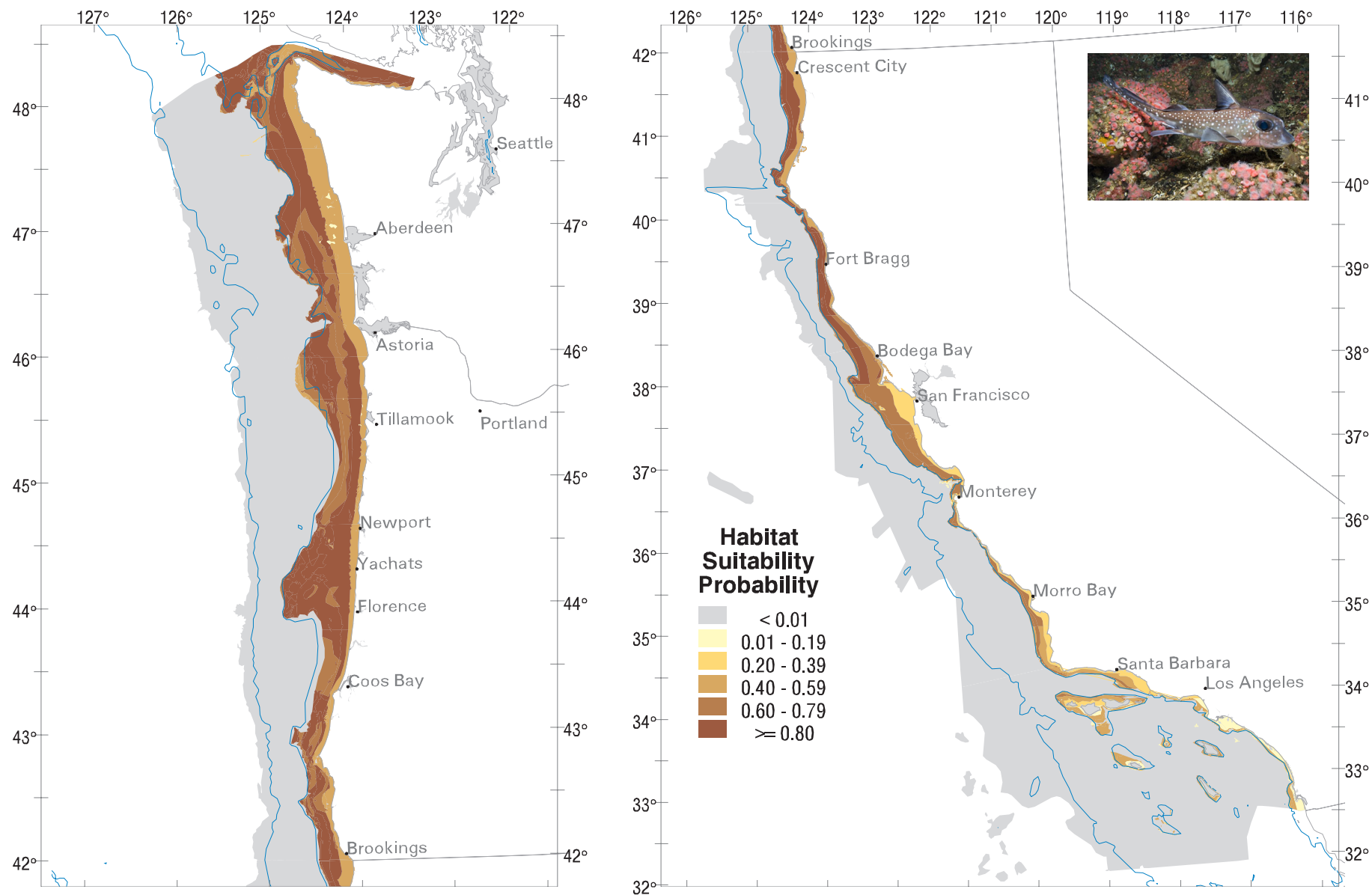
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Ratfish - Eggs



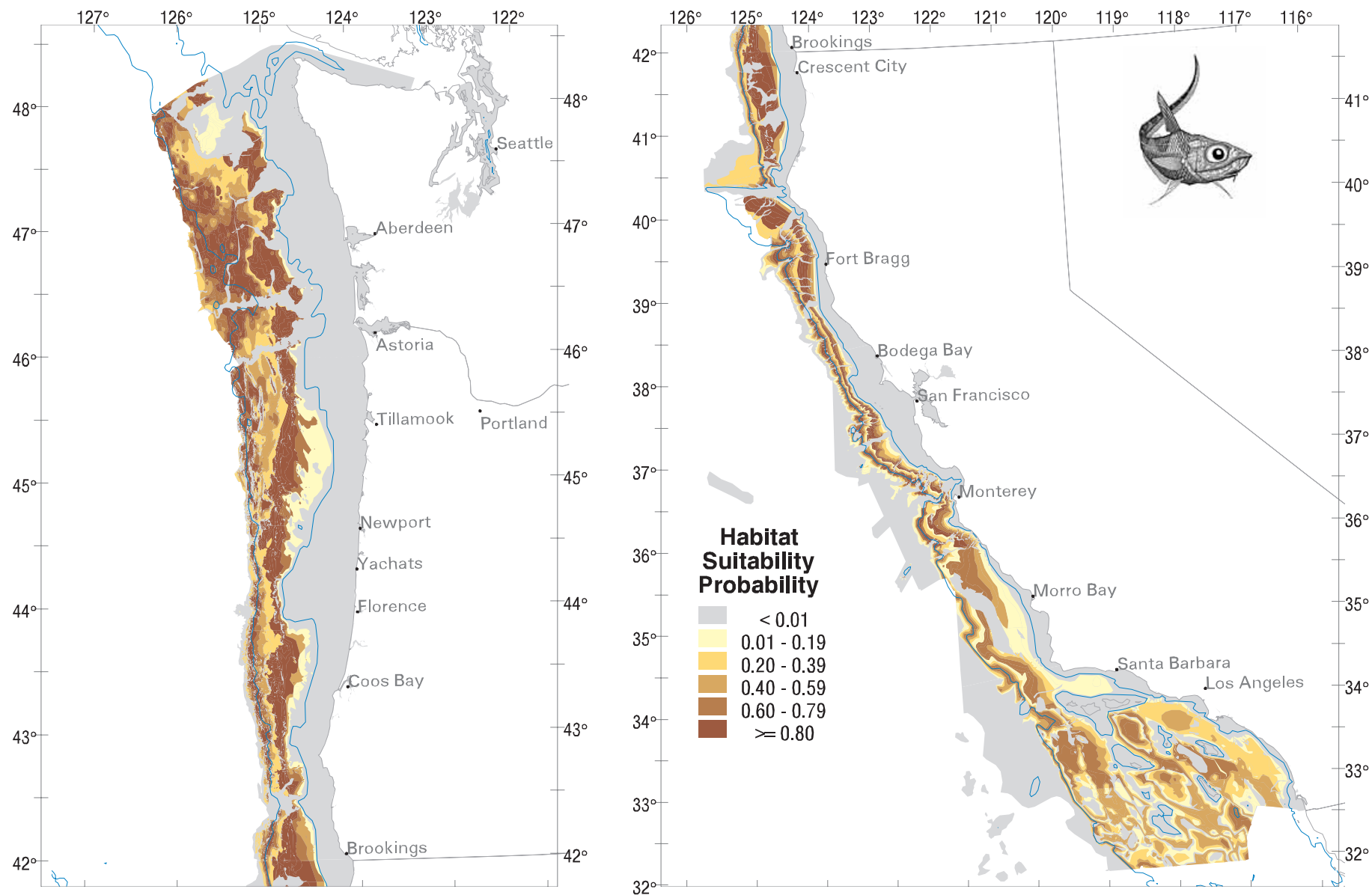
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Ratfish - Juvenile



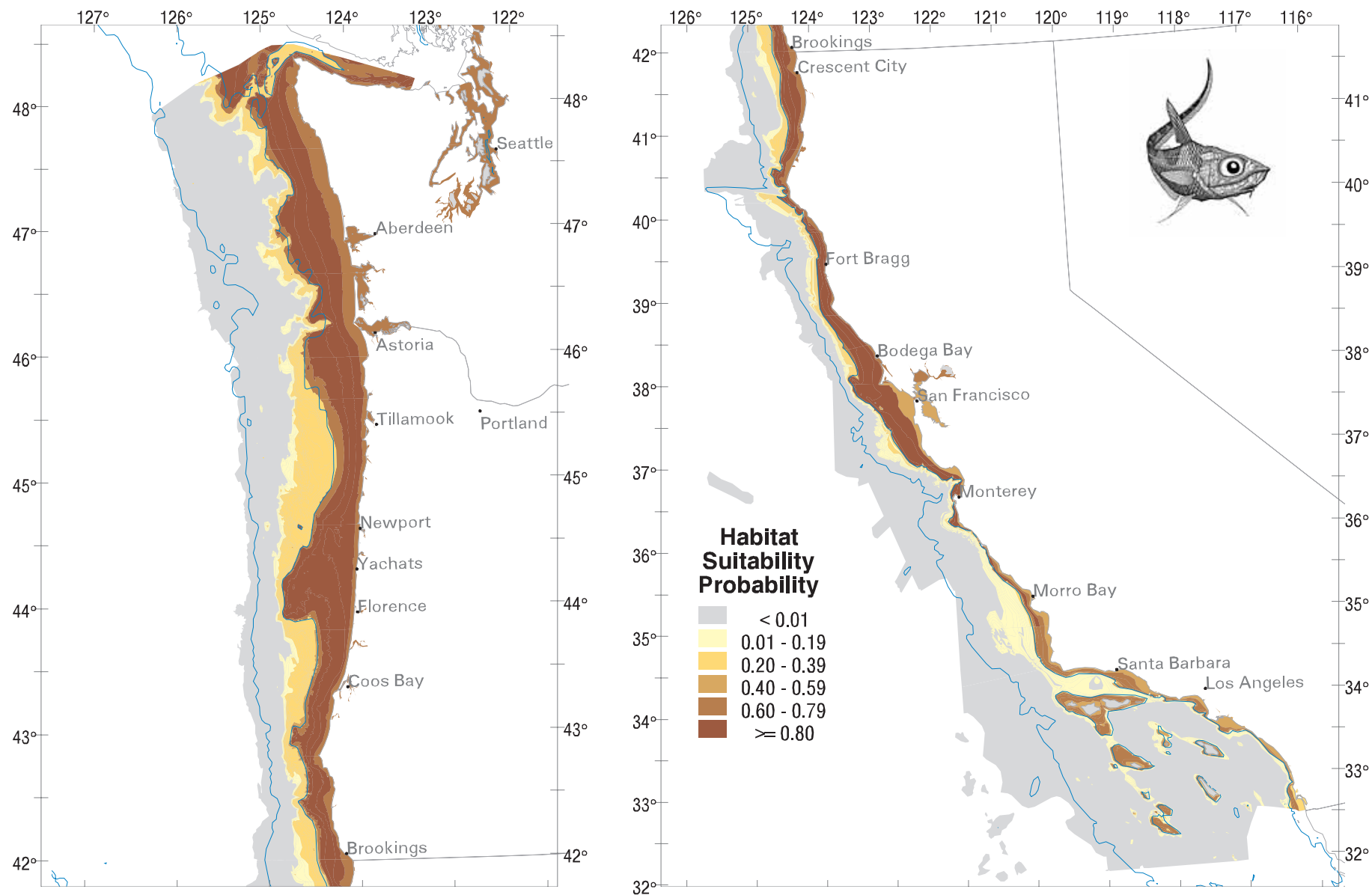
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Pacific Rattail - Adult



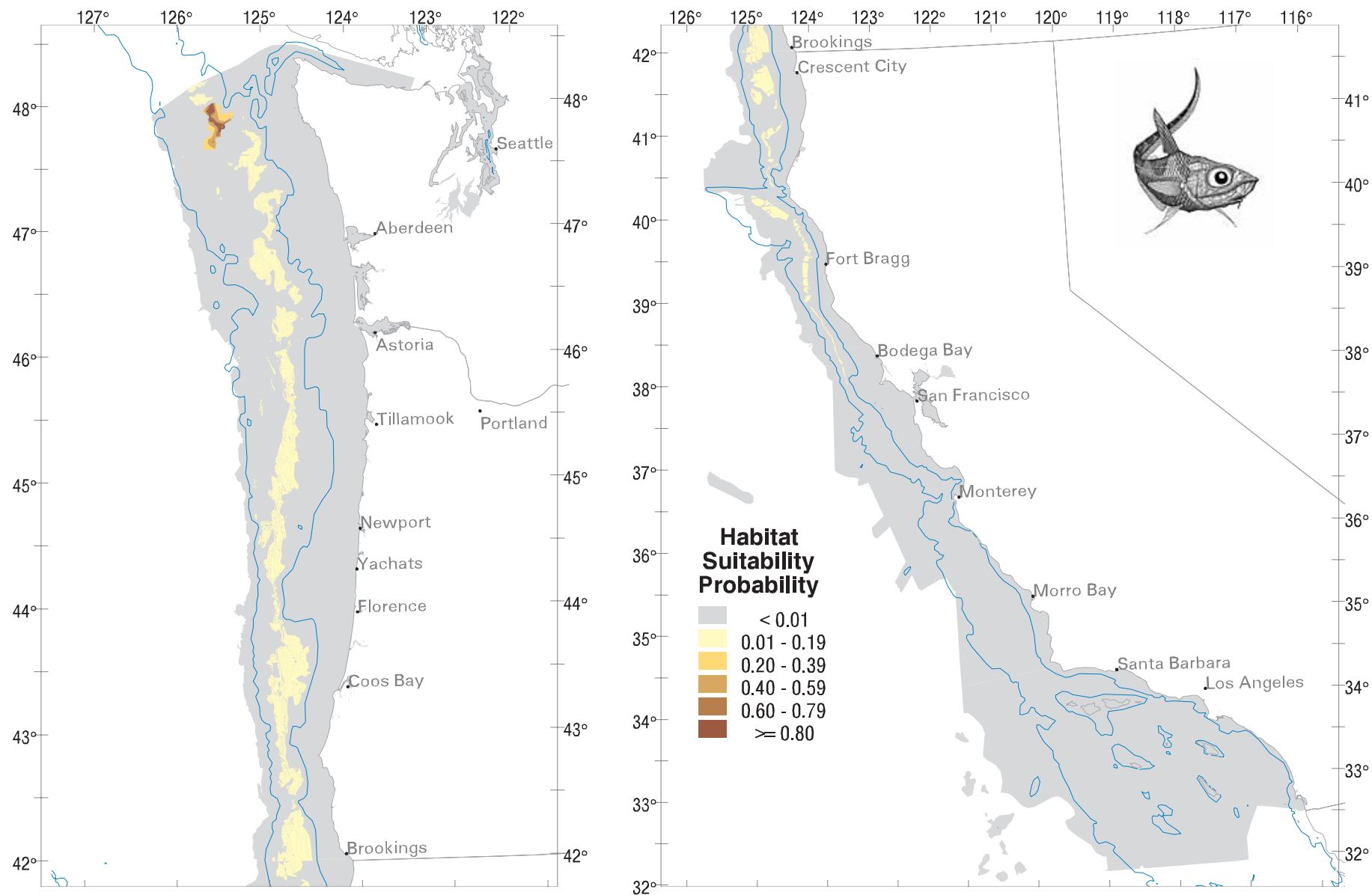
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: 'HUD & Survey'*

Pacific Rattail - Eggs



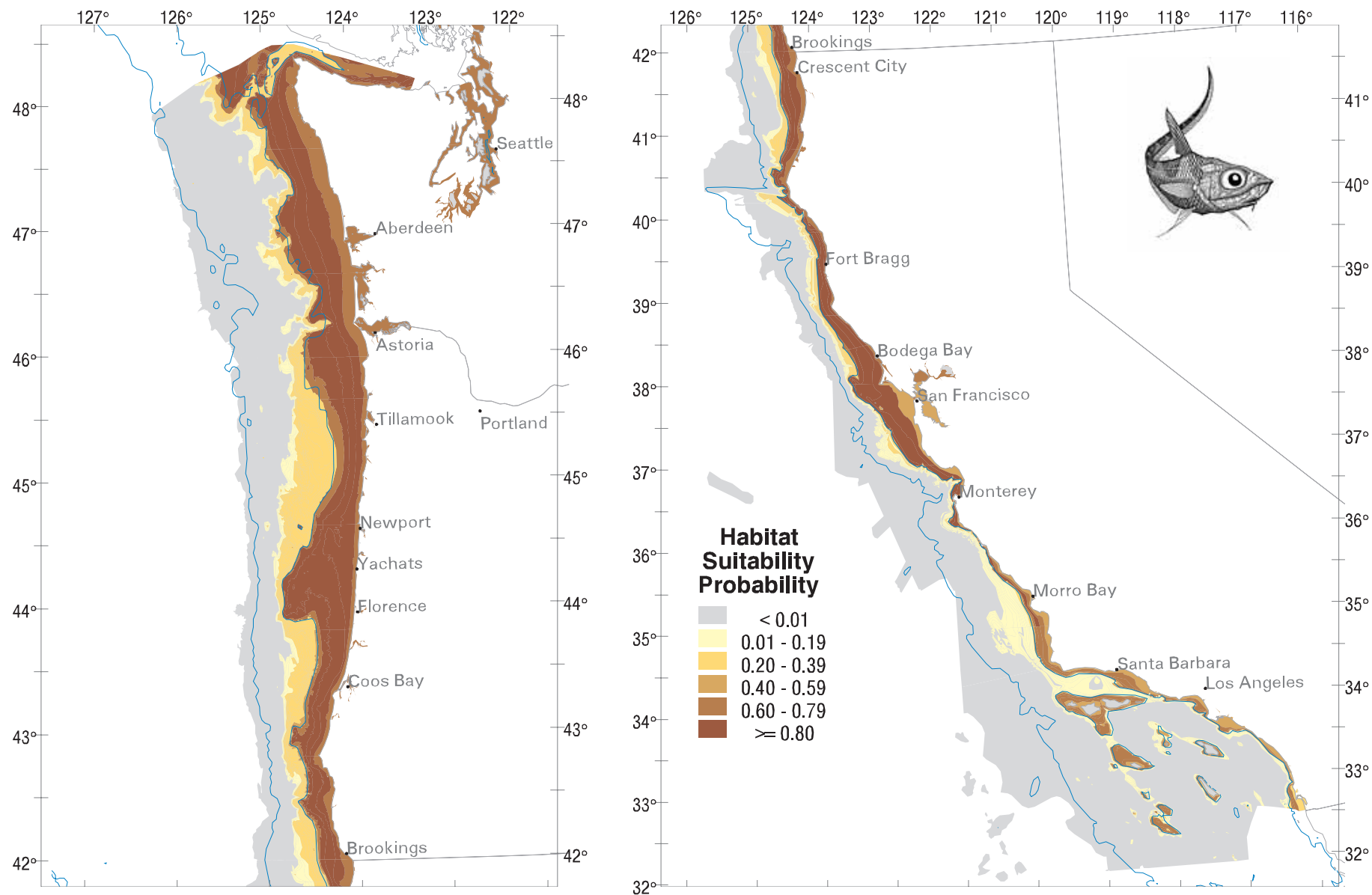
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Pacific Rattail - Juvenile



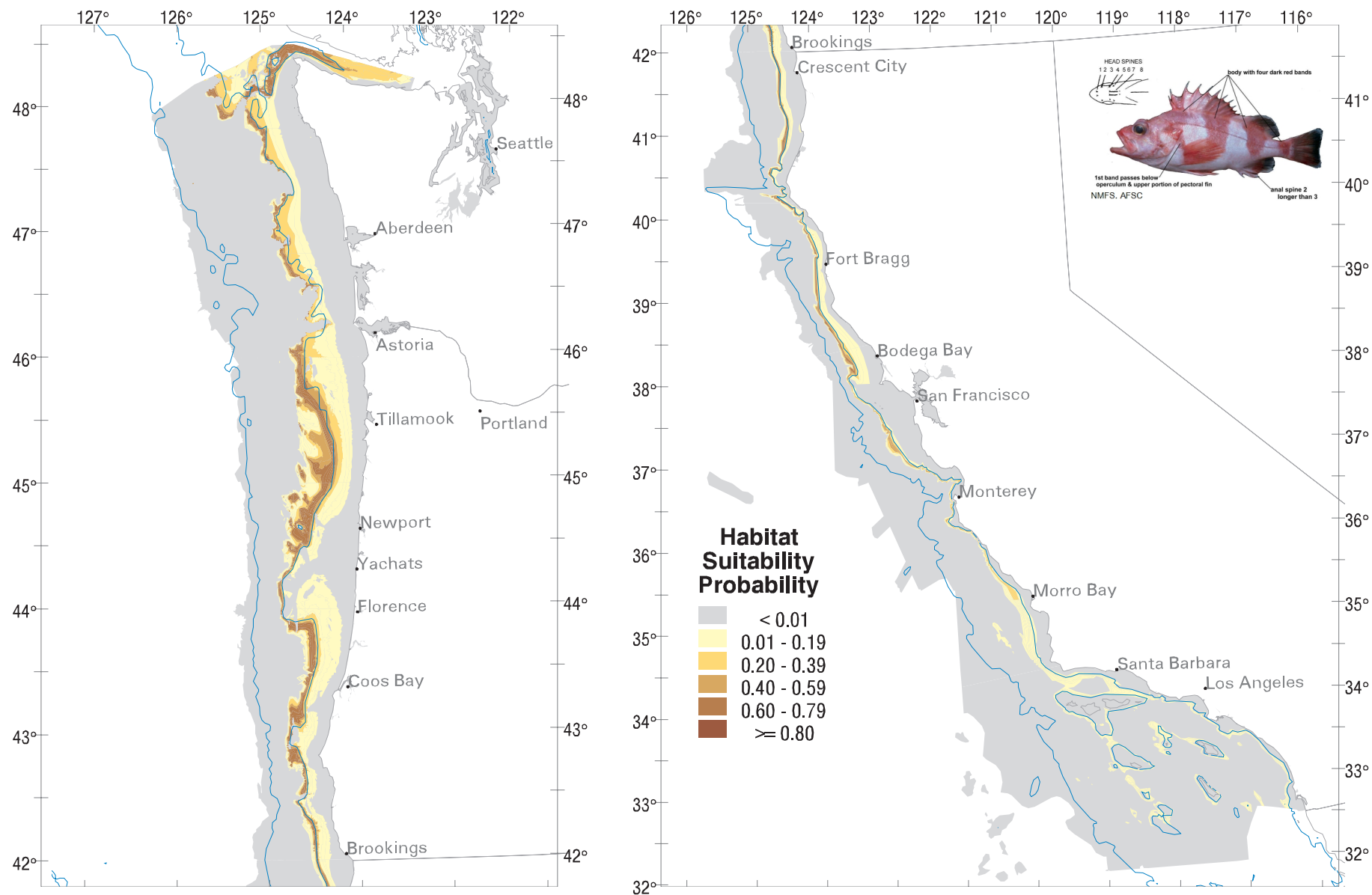
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Pacific Rattail - Larvae



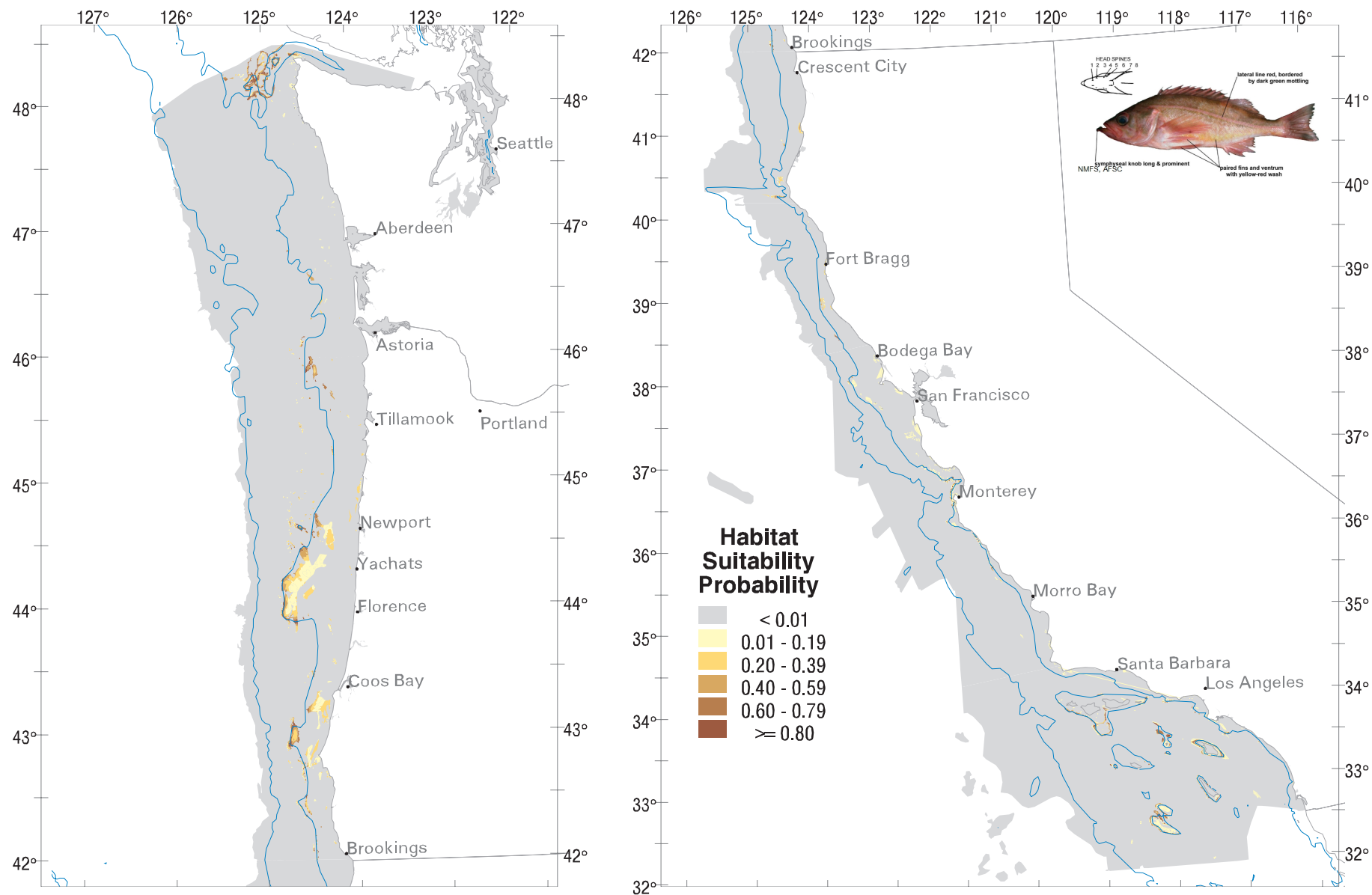
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Redbanded Rockfish - Adult

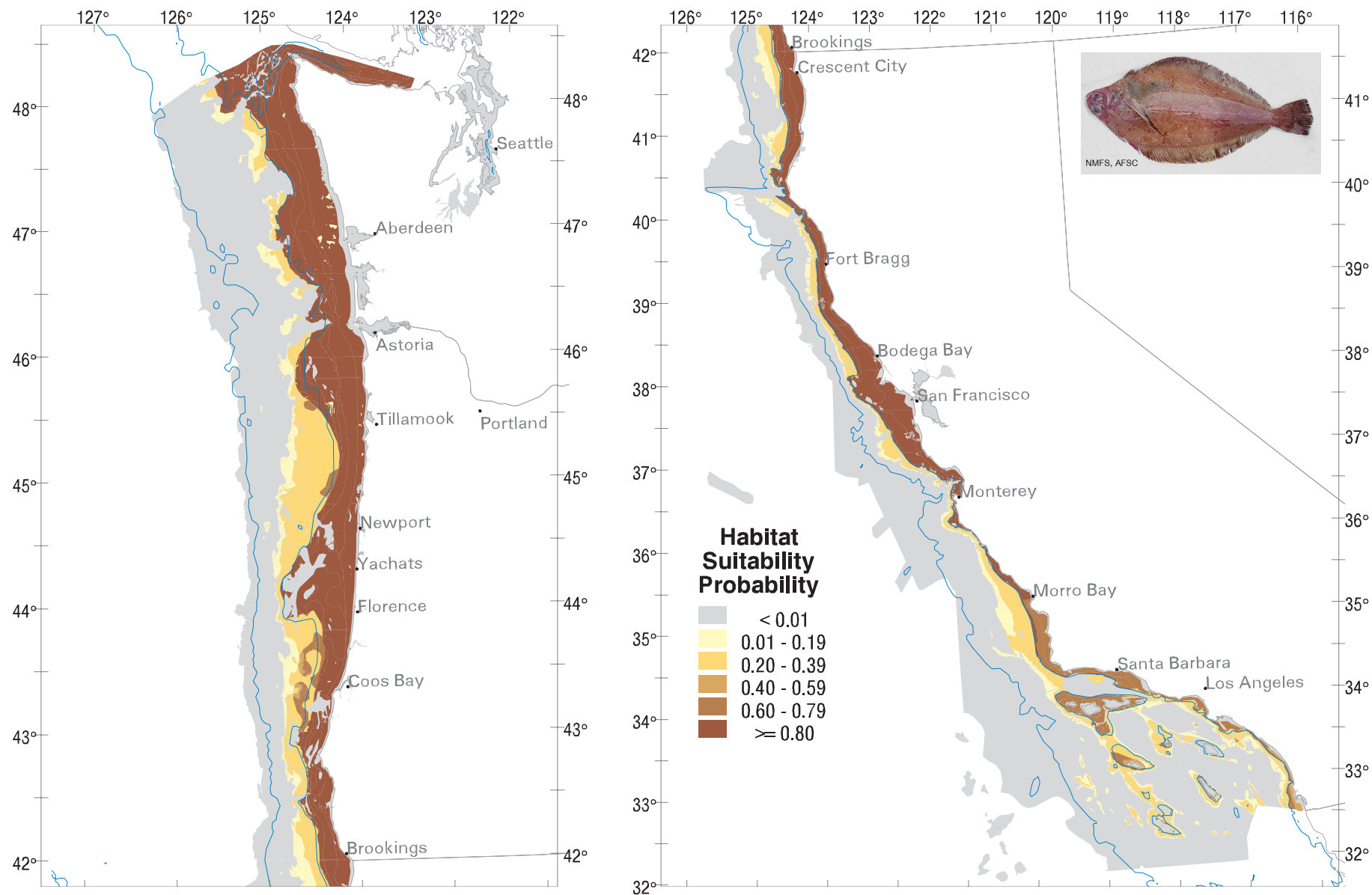


Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey

Redstripe Rockfish - Adult

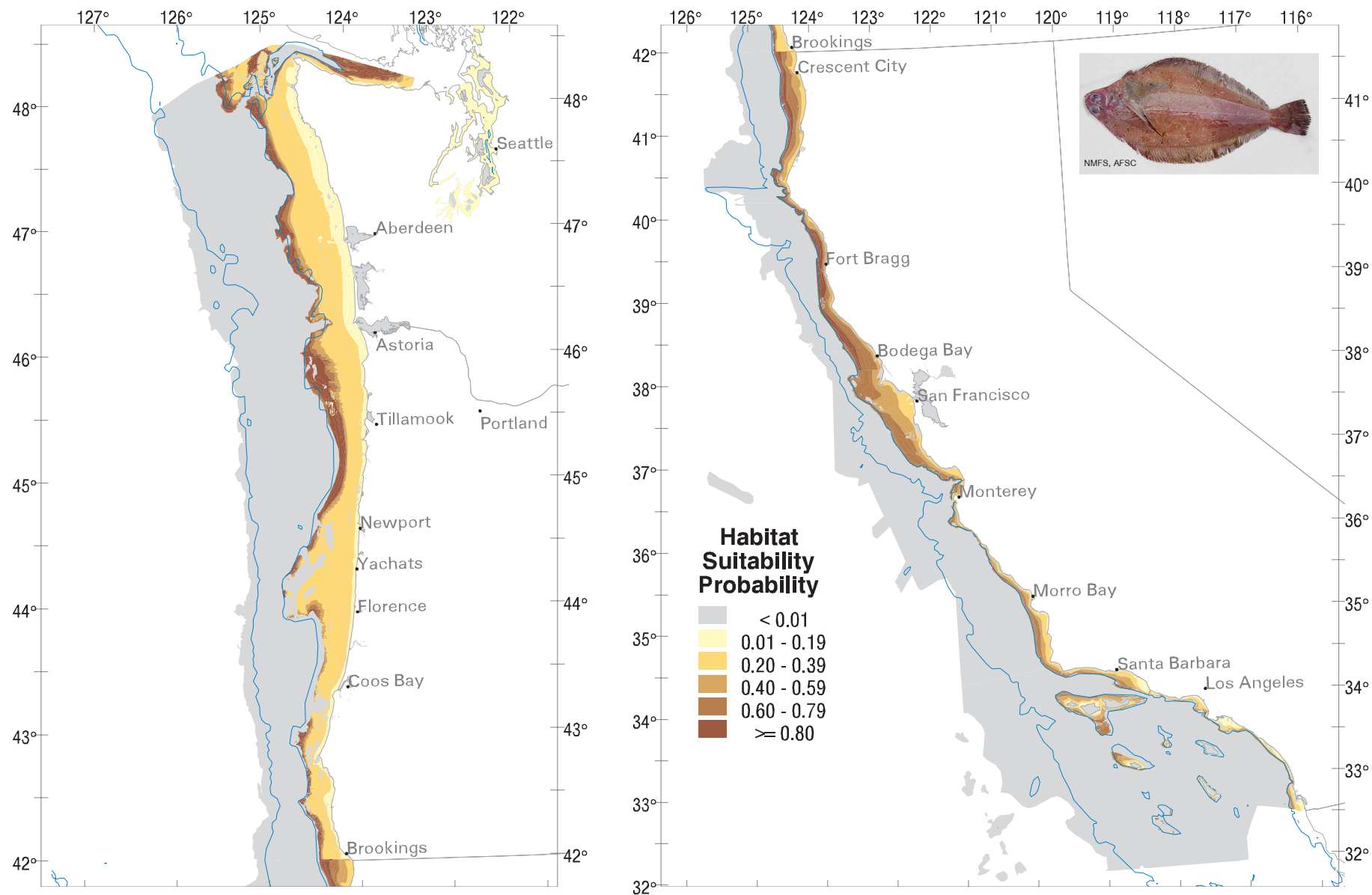


Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Rex Sole - Adult

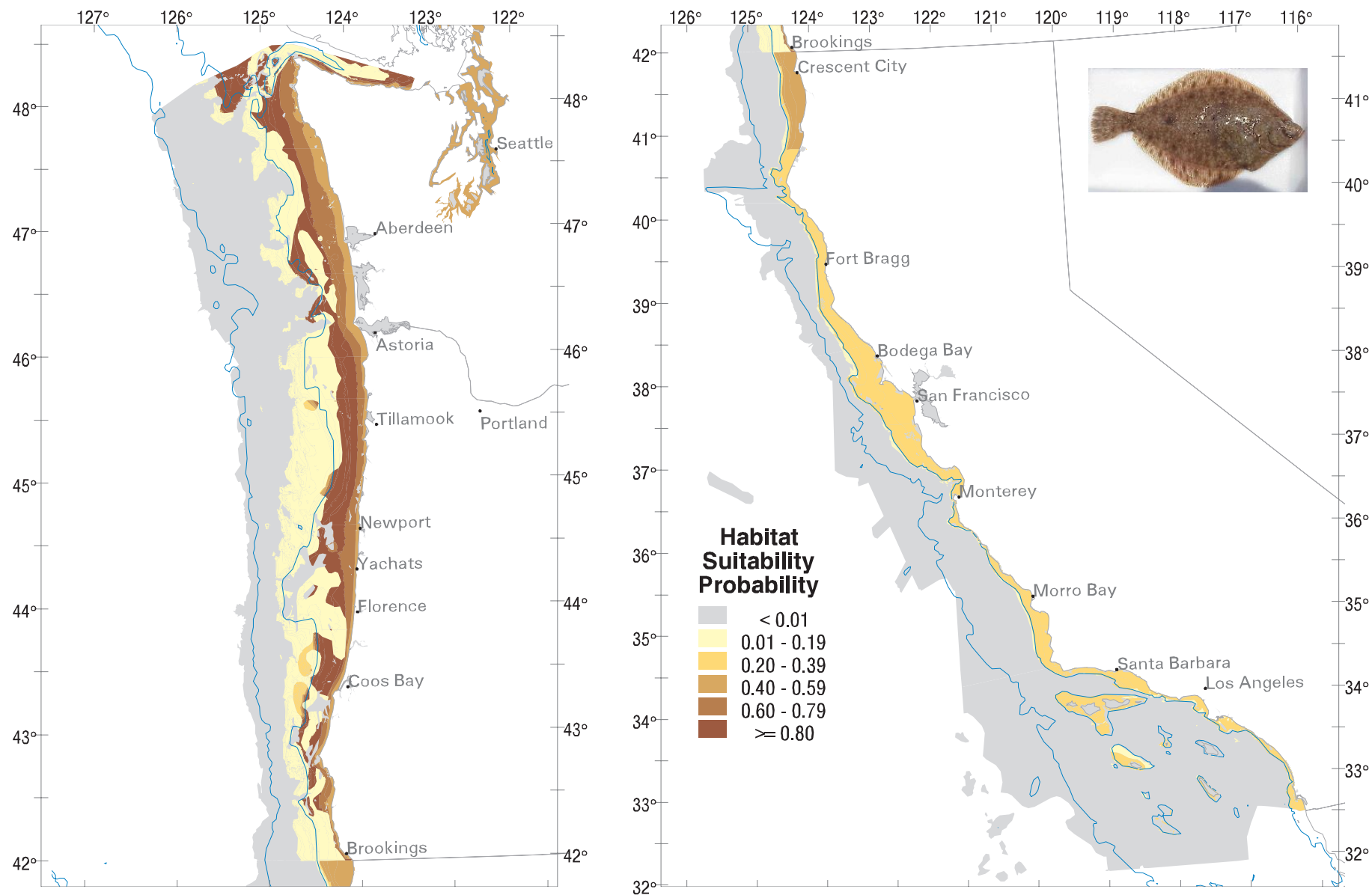
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey*

Rex Sole - Juvenile



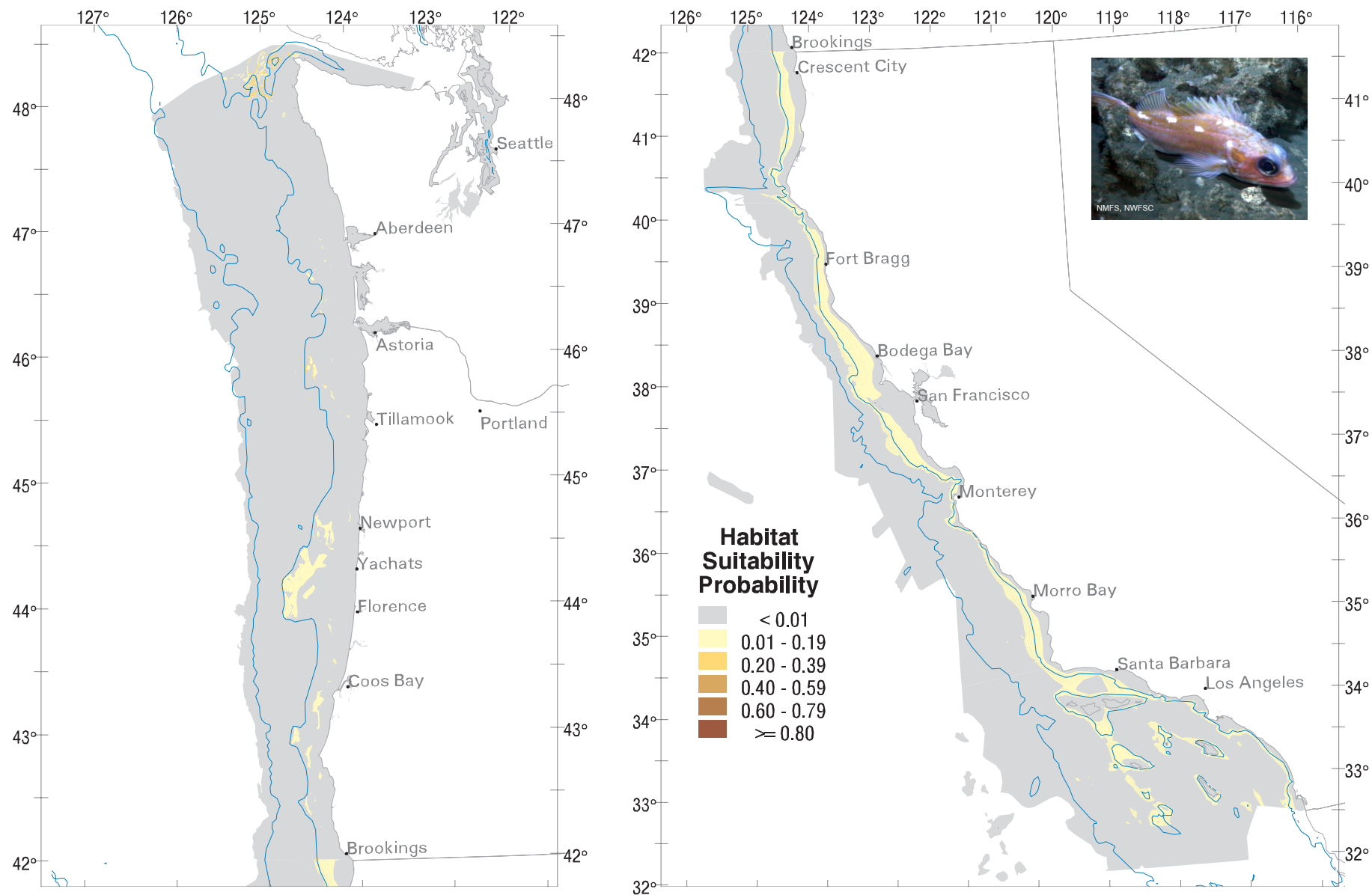
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Rock Sole - Adult



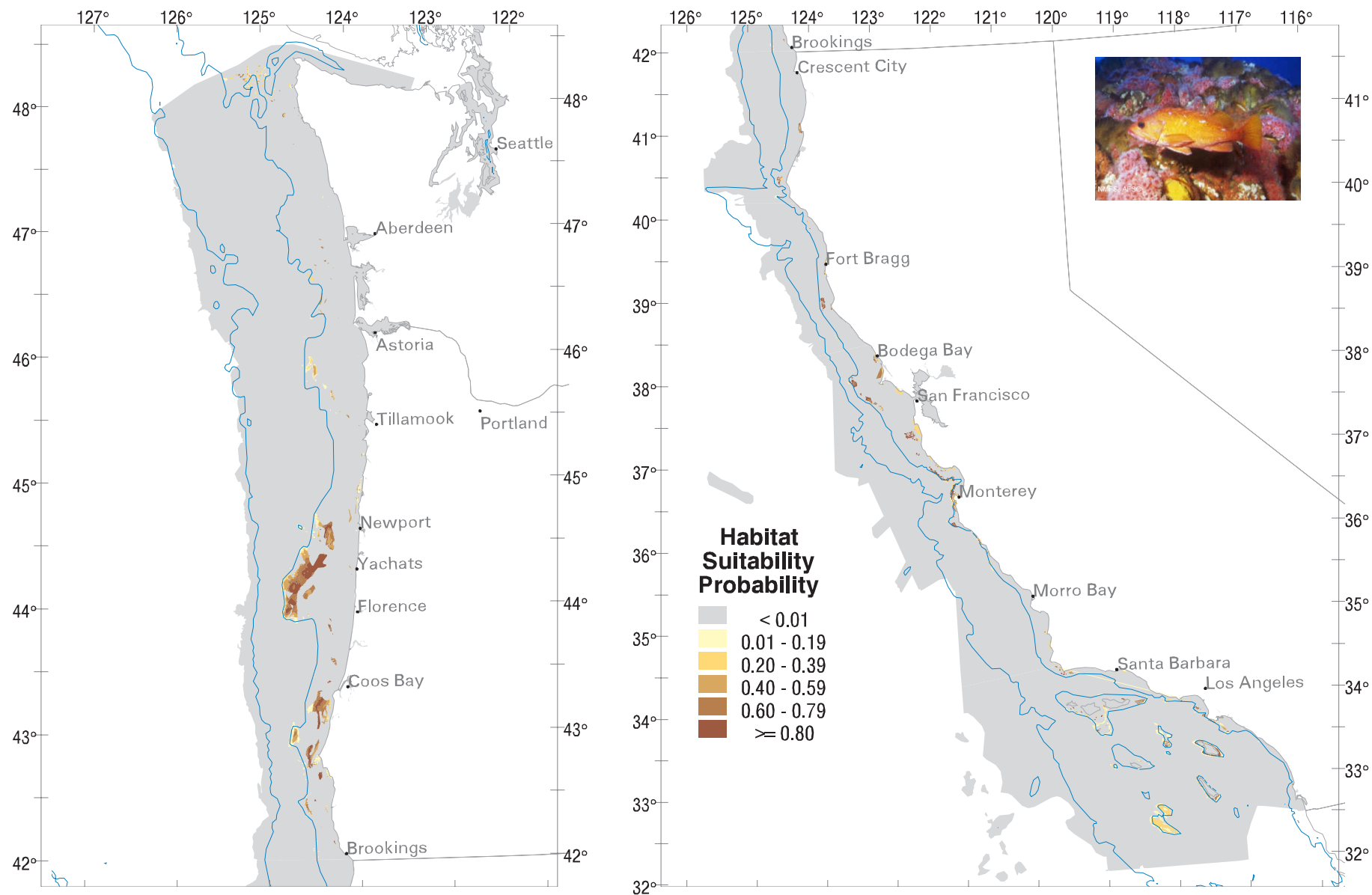
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Rosehorn Rockfish - Adult



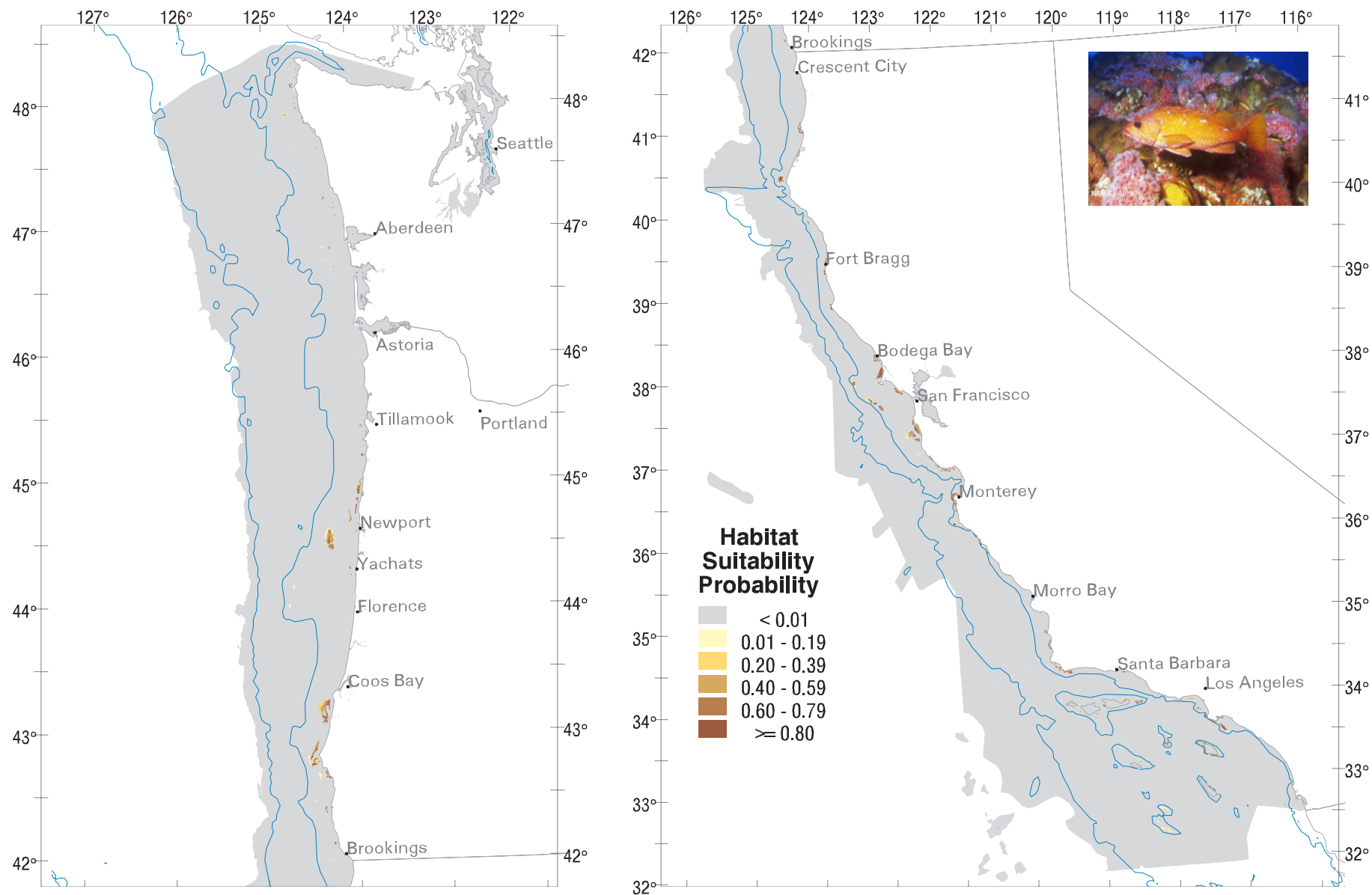
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey*

Rosy Rockfish - Adult



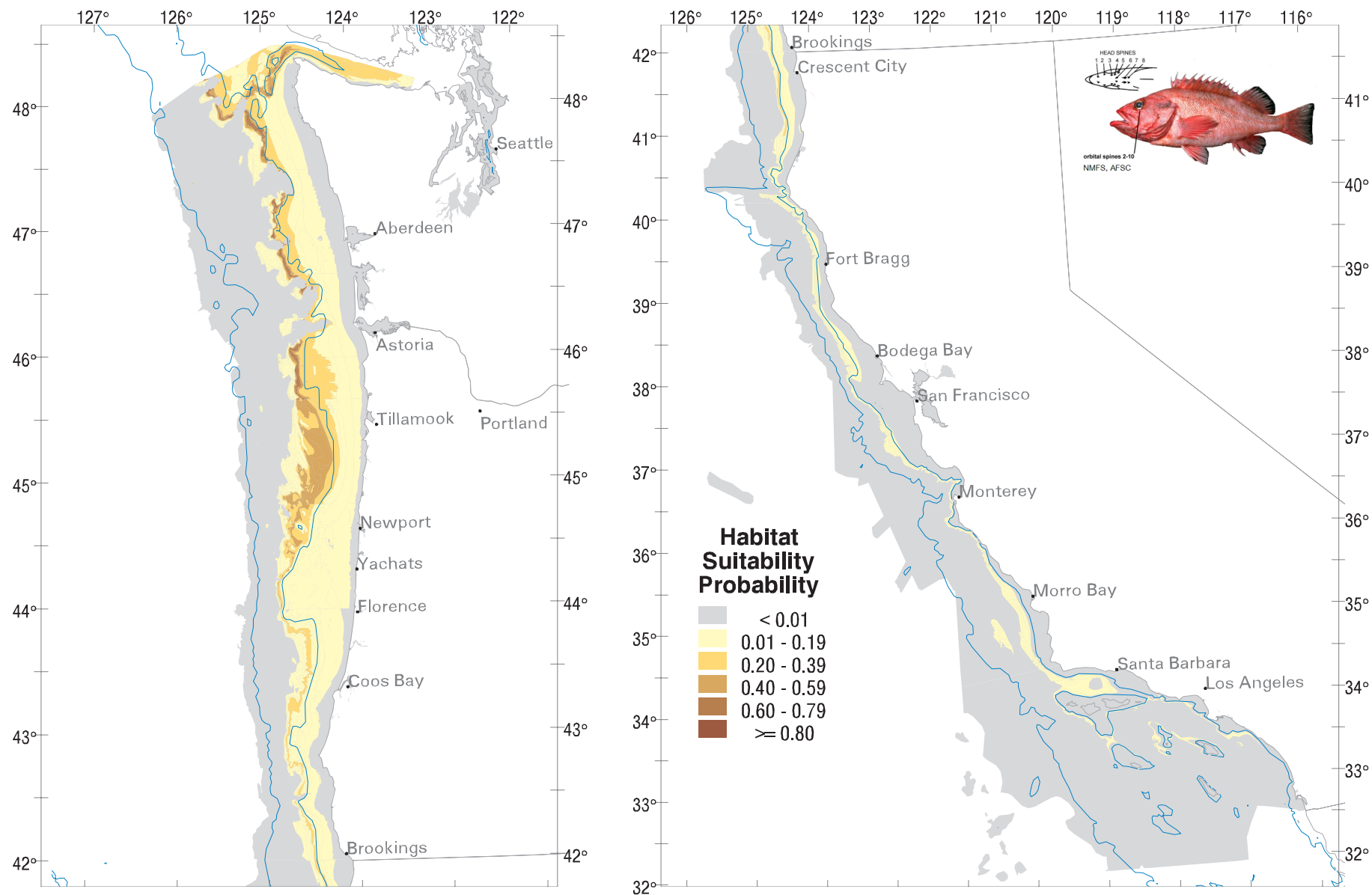
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Rosy Rockfish - Juvenile



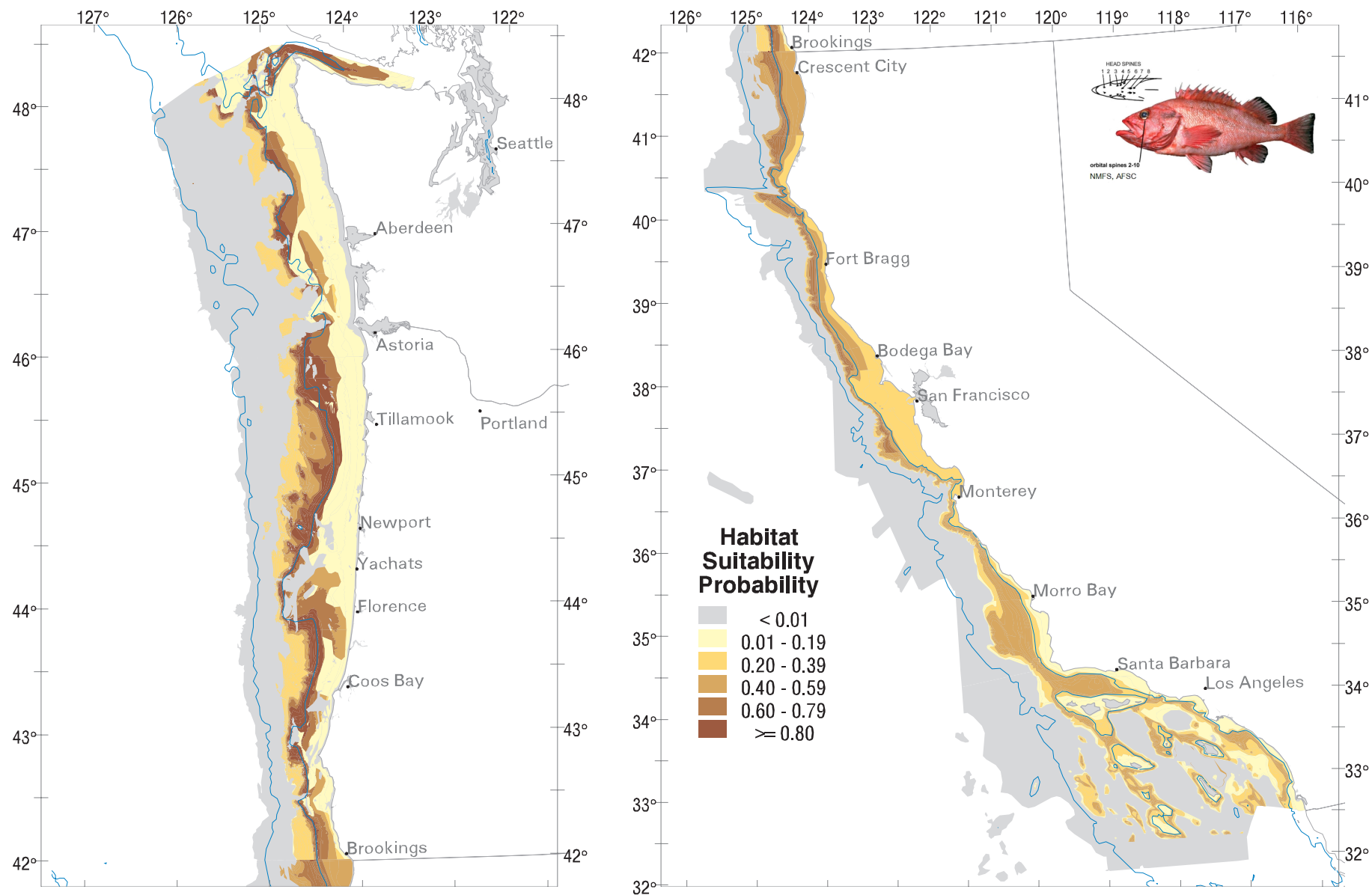
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Rougheye Rockfish - Adult



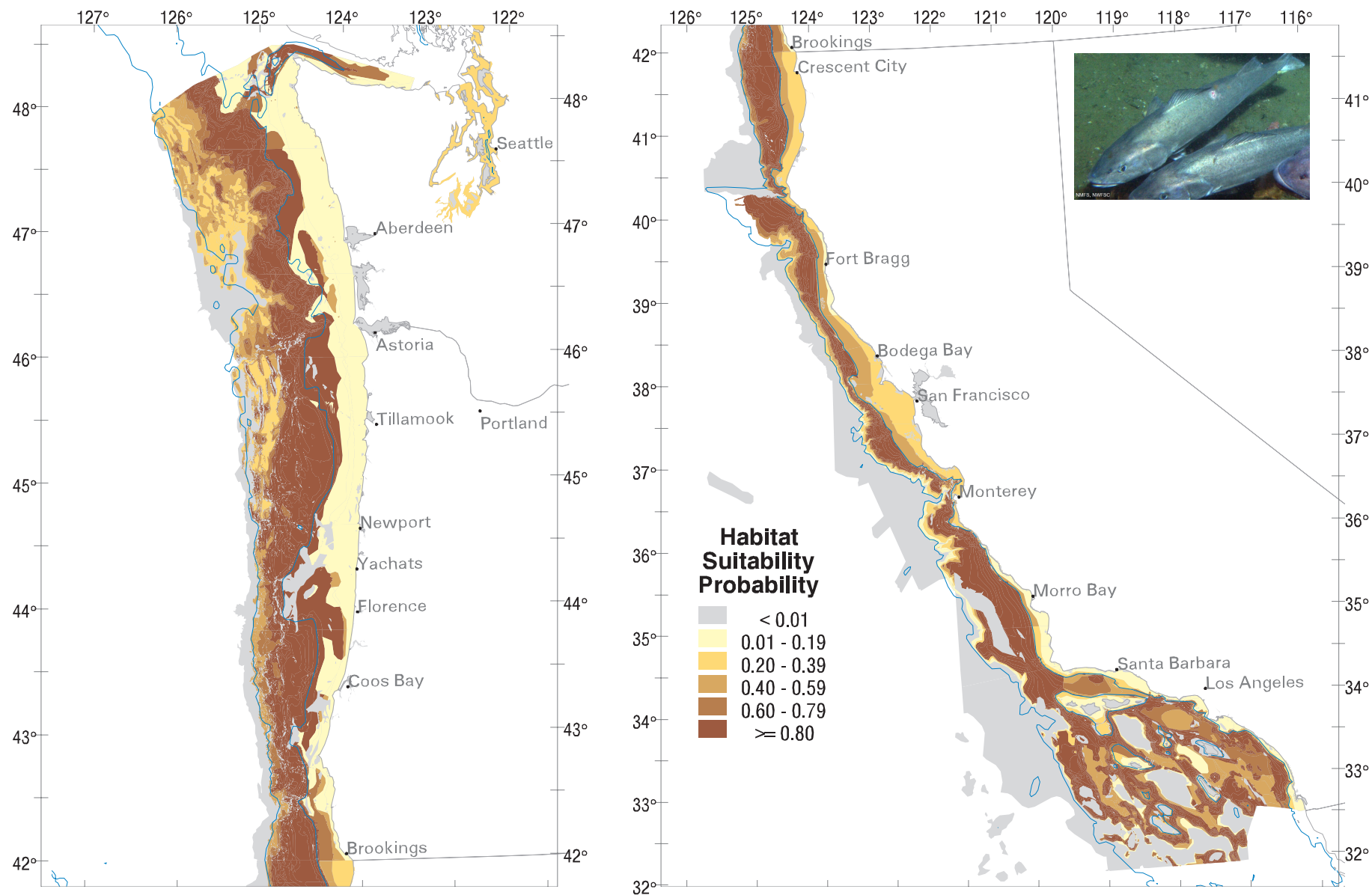
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey*

Rougheye Rockfish - Juvenile



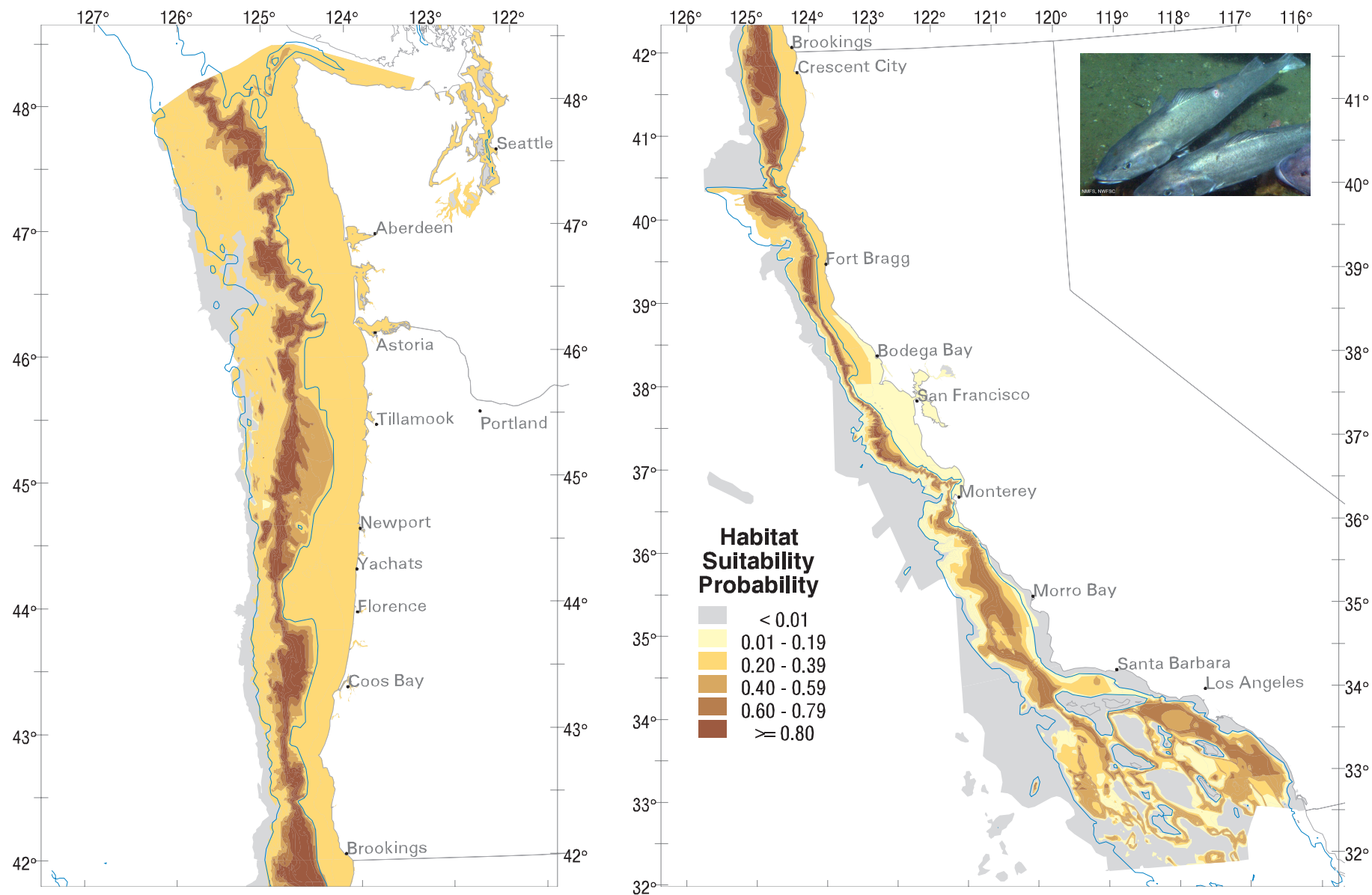
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Sablefish - Adult



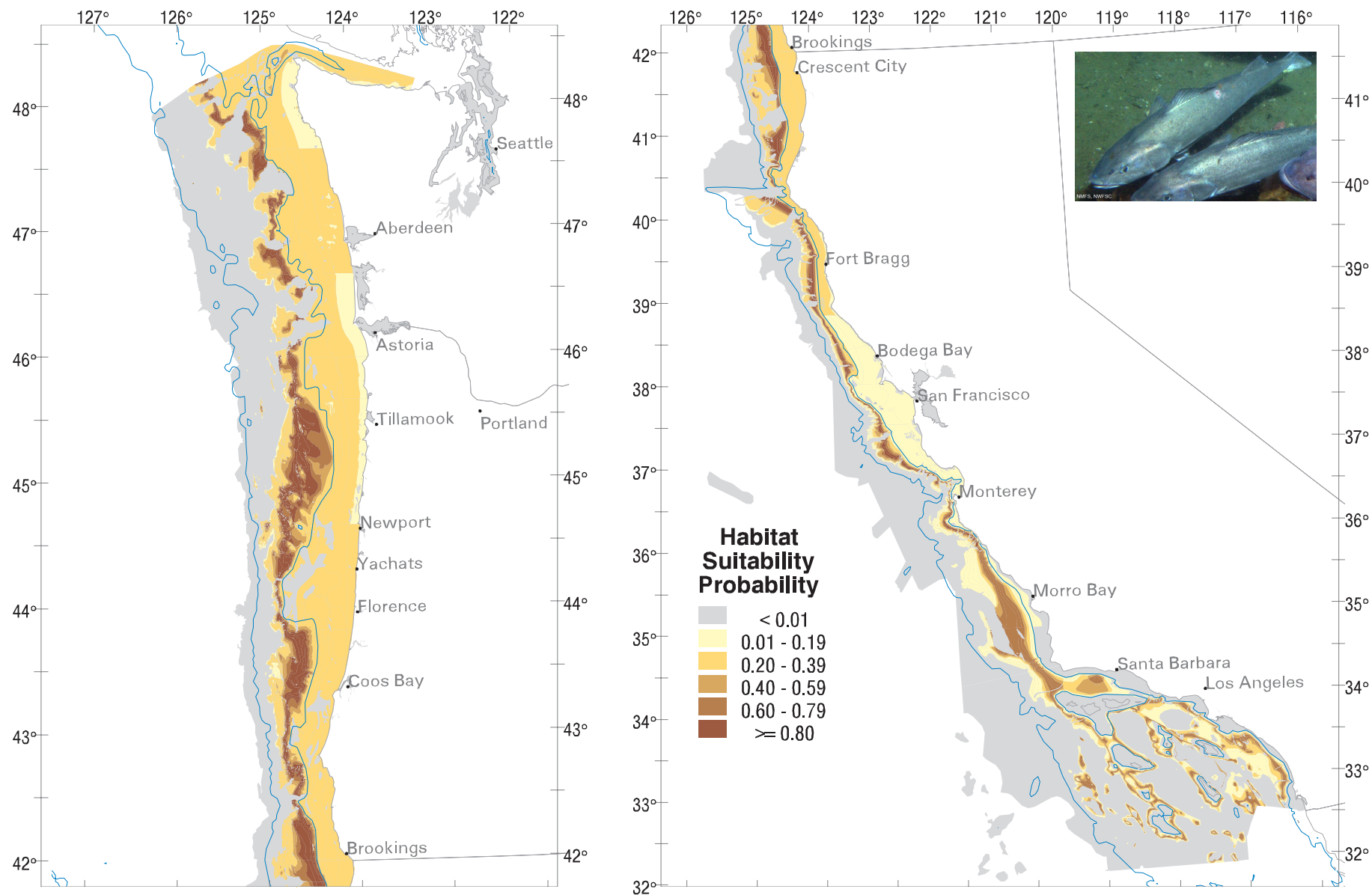
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: 'HUD & Survey'

Sablefish - Eggs



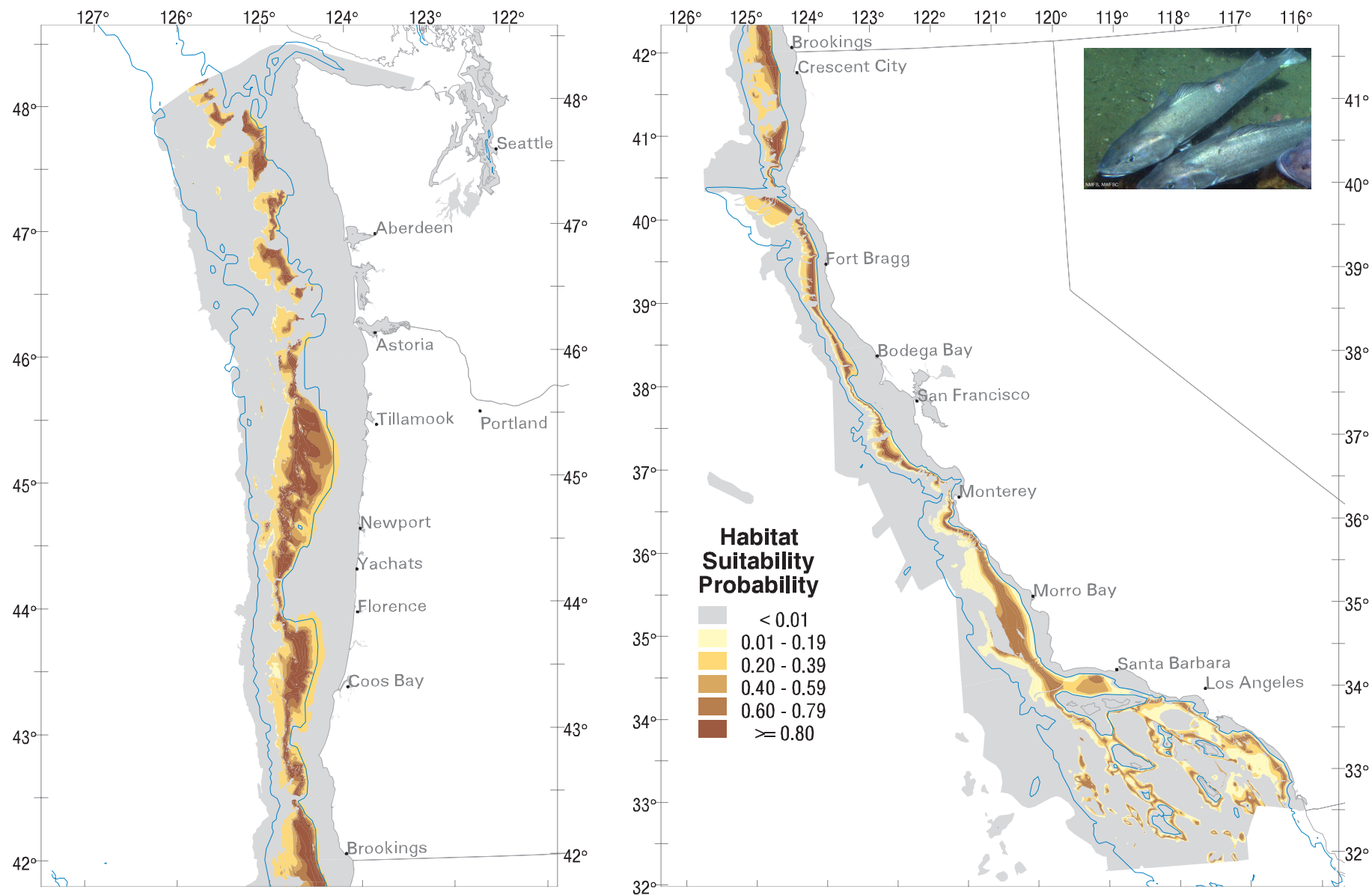
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Sablefish - Juvenile



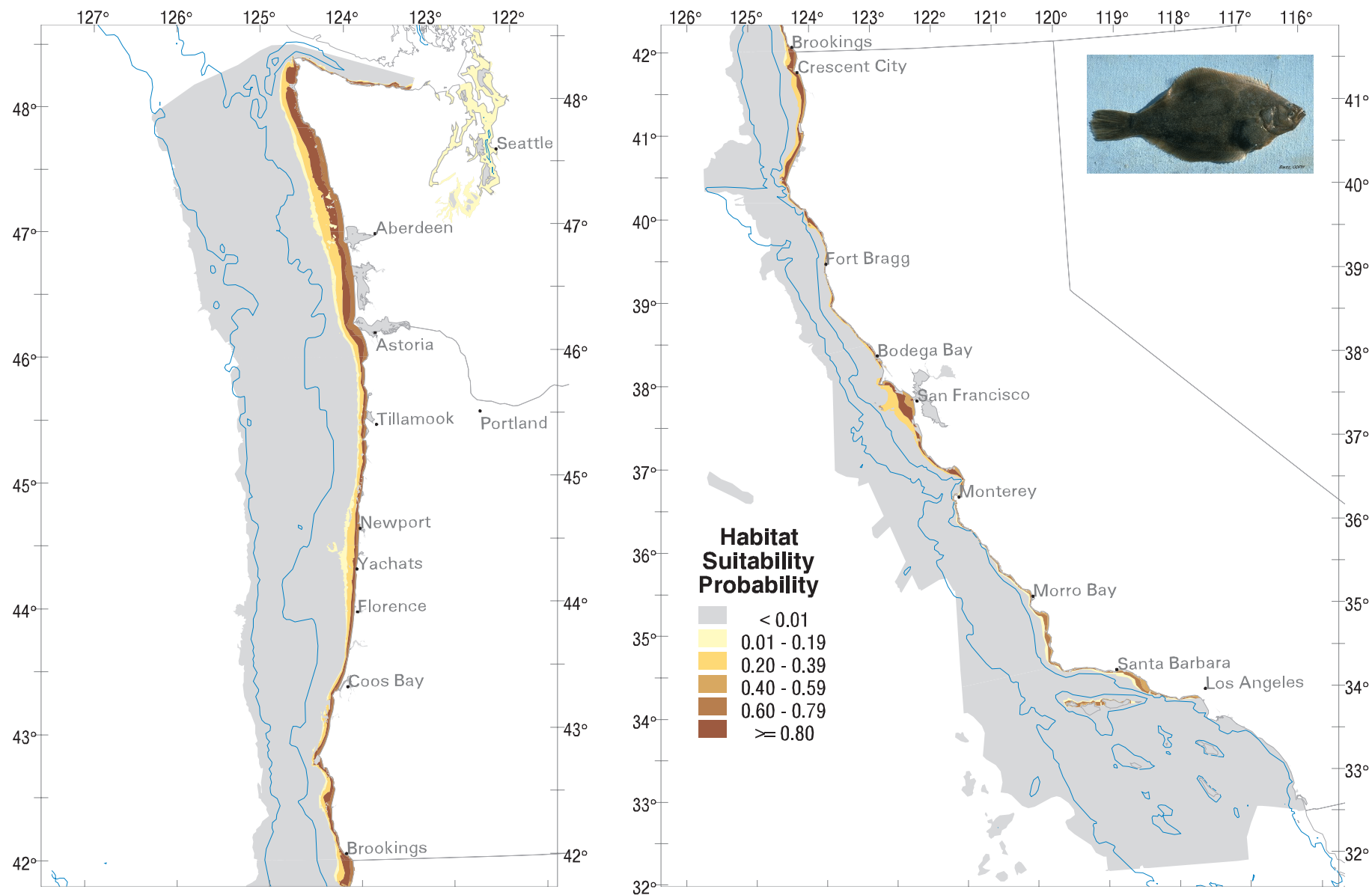
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Sablefish - Larvae



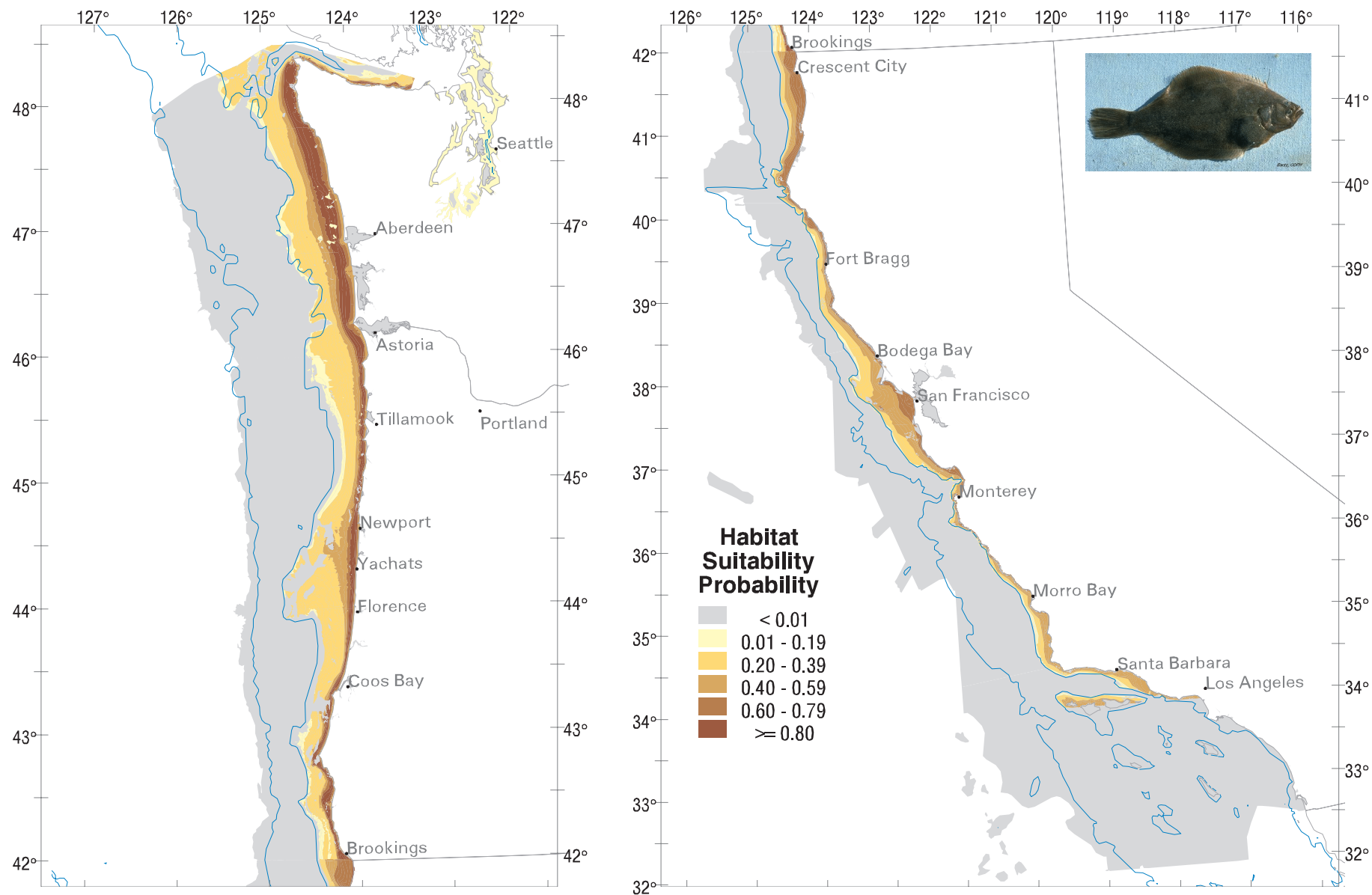
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Sand Sole - Adult



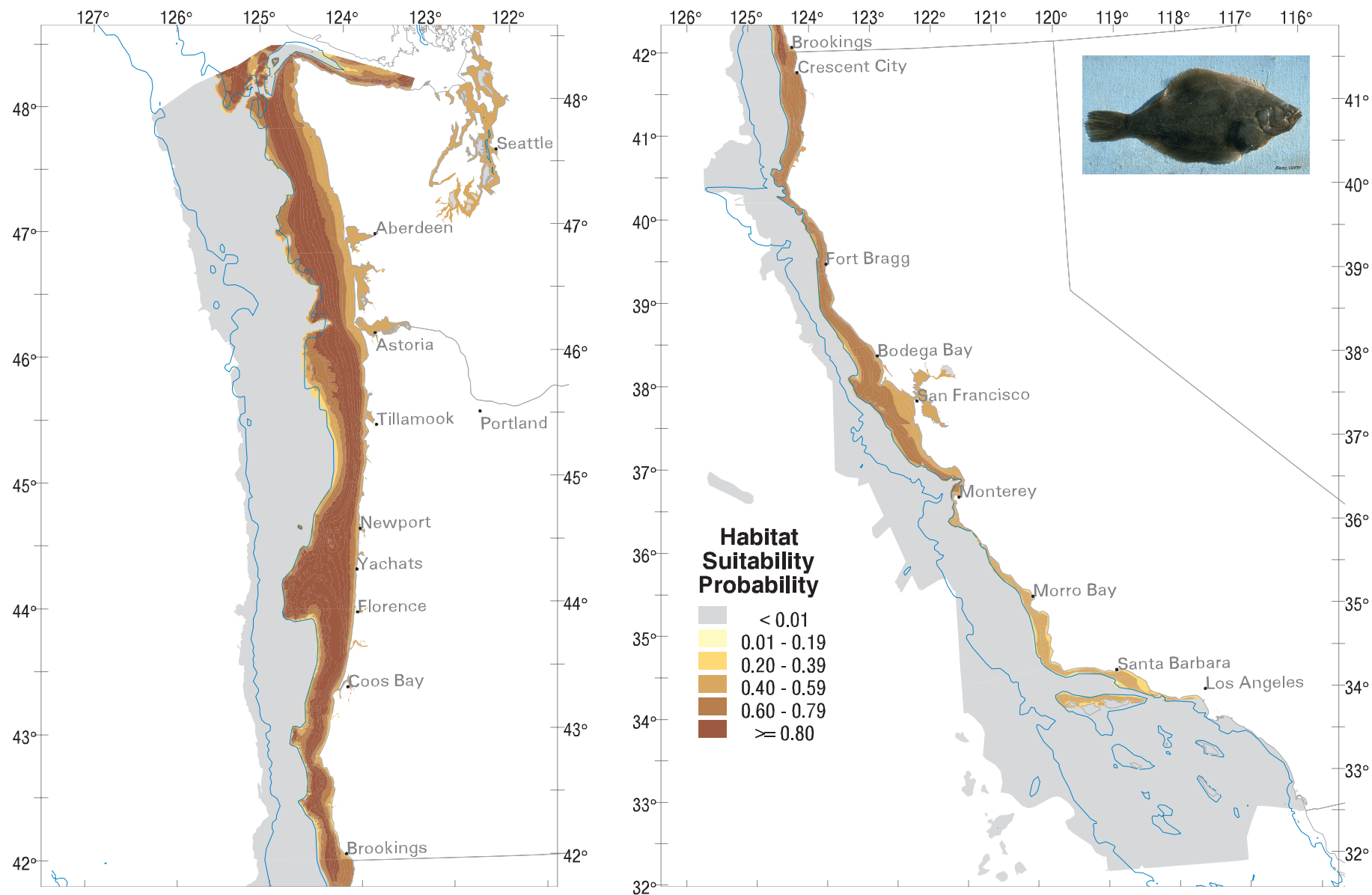
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Sand Sole - Juvenile



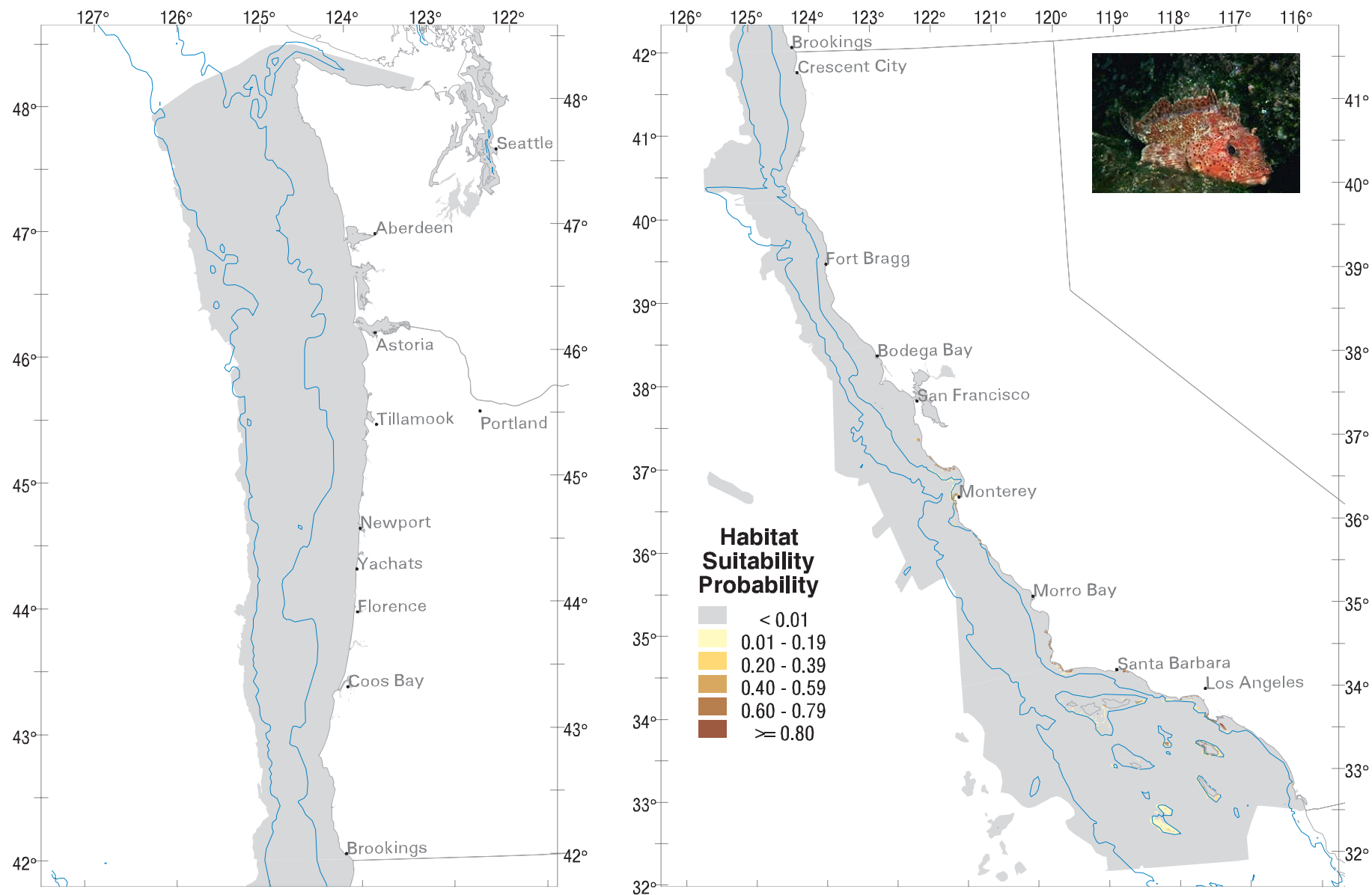
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Sand Sole - Larvae

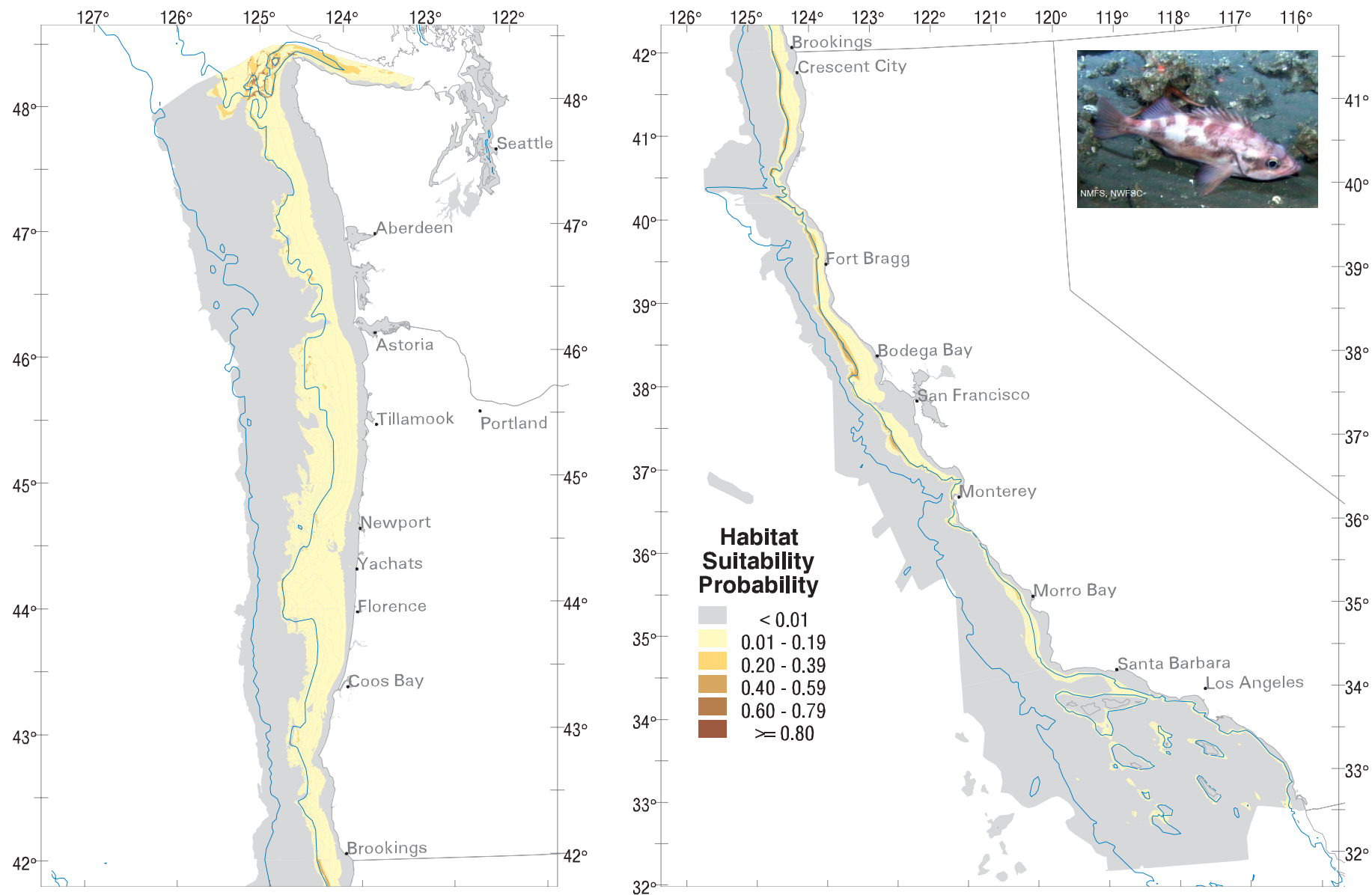


*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

California Scorpionfish - Adult

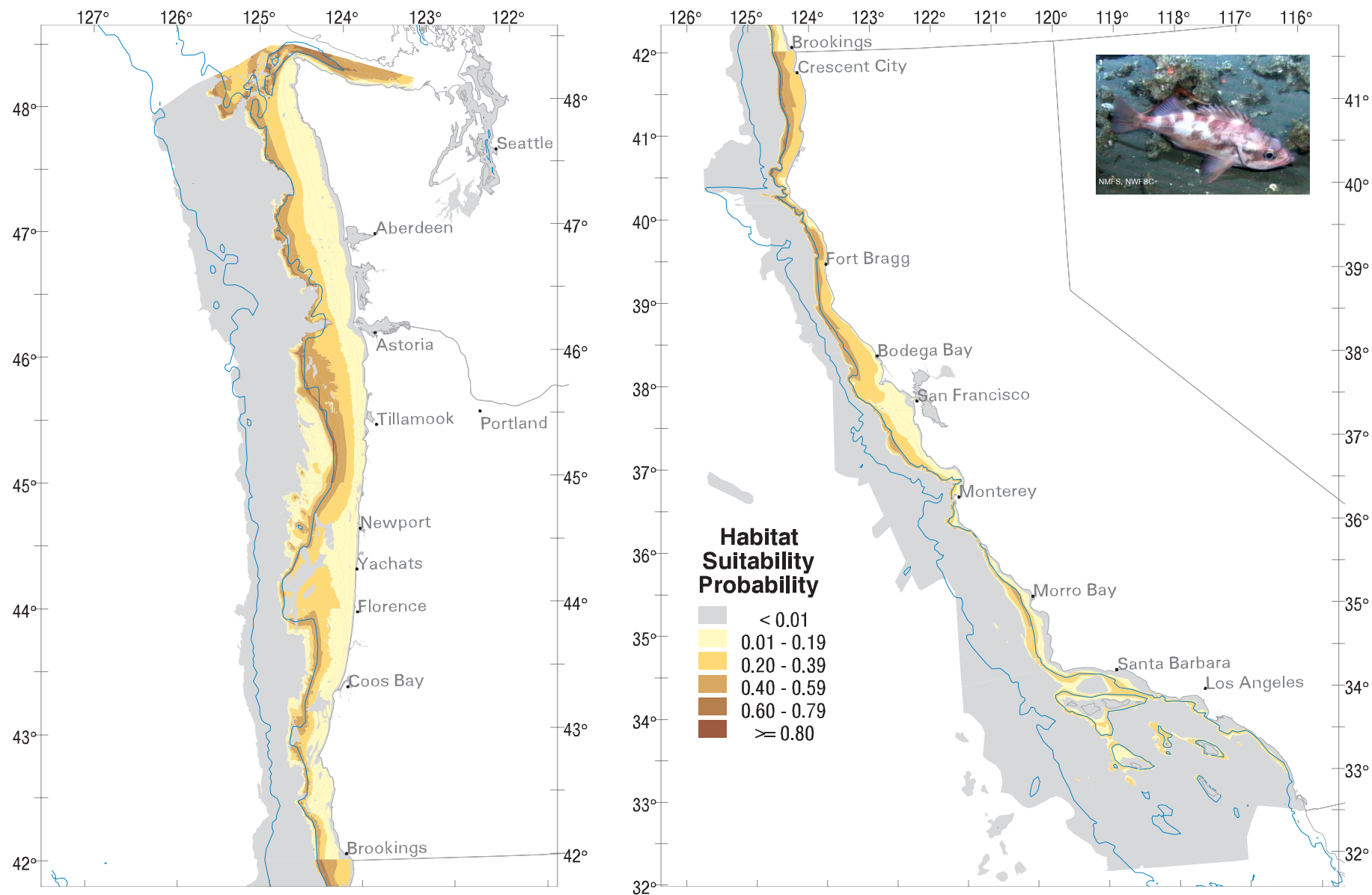


Sharpchin Rockfish - Adult



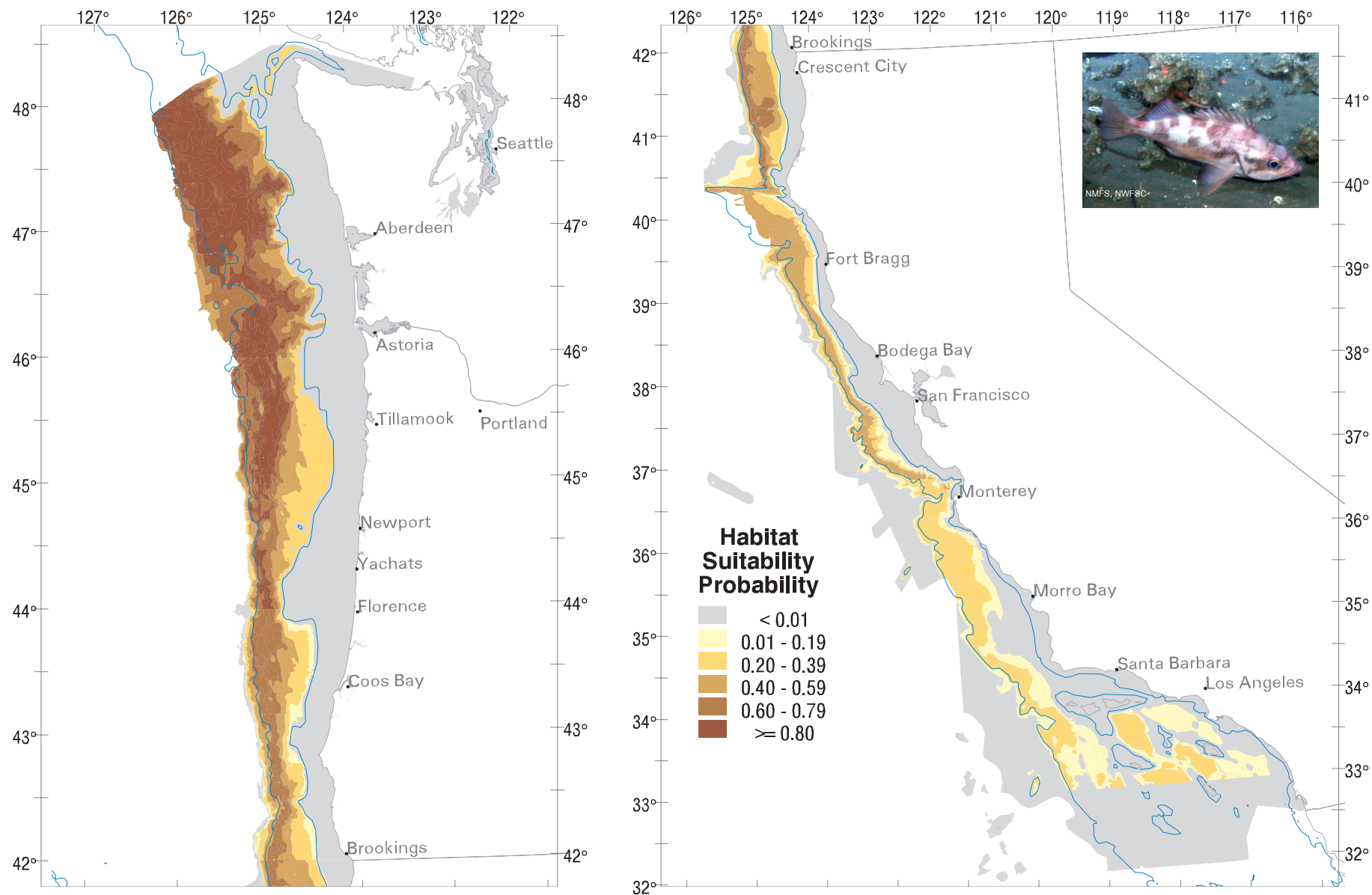
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey*

Sharpchin Rockfish - Juvenile



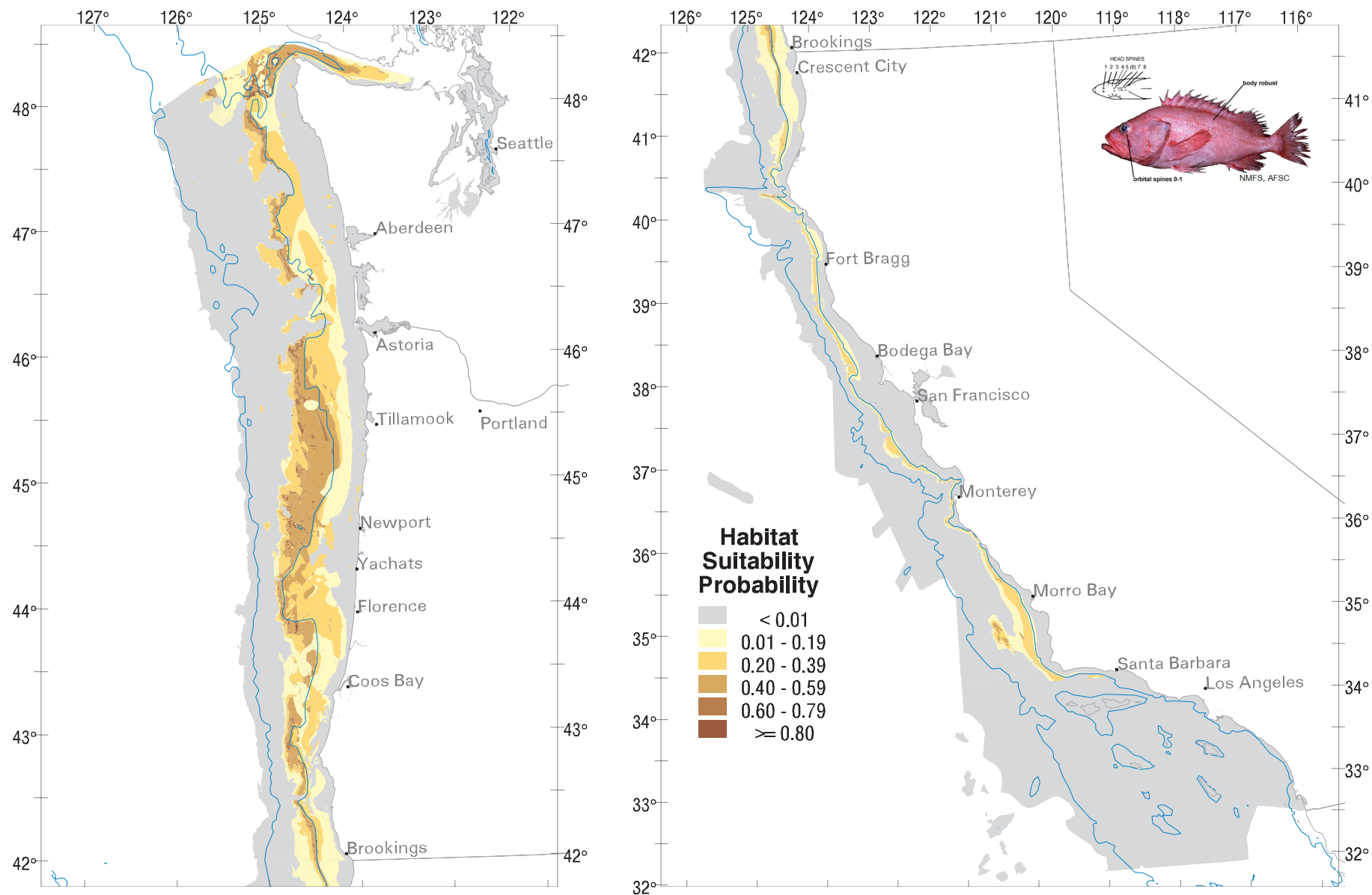
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Sharpchin Rockfish - Larvae



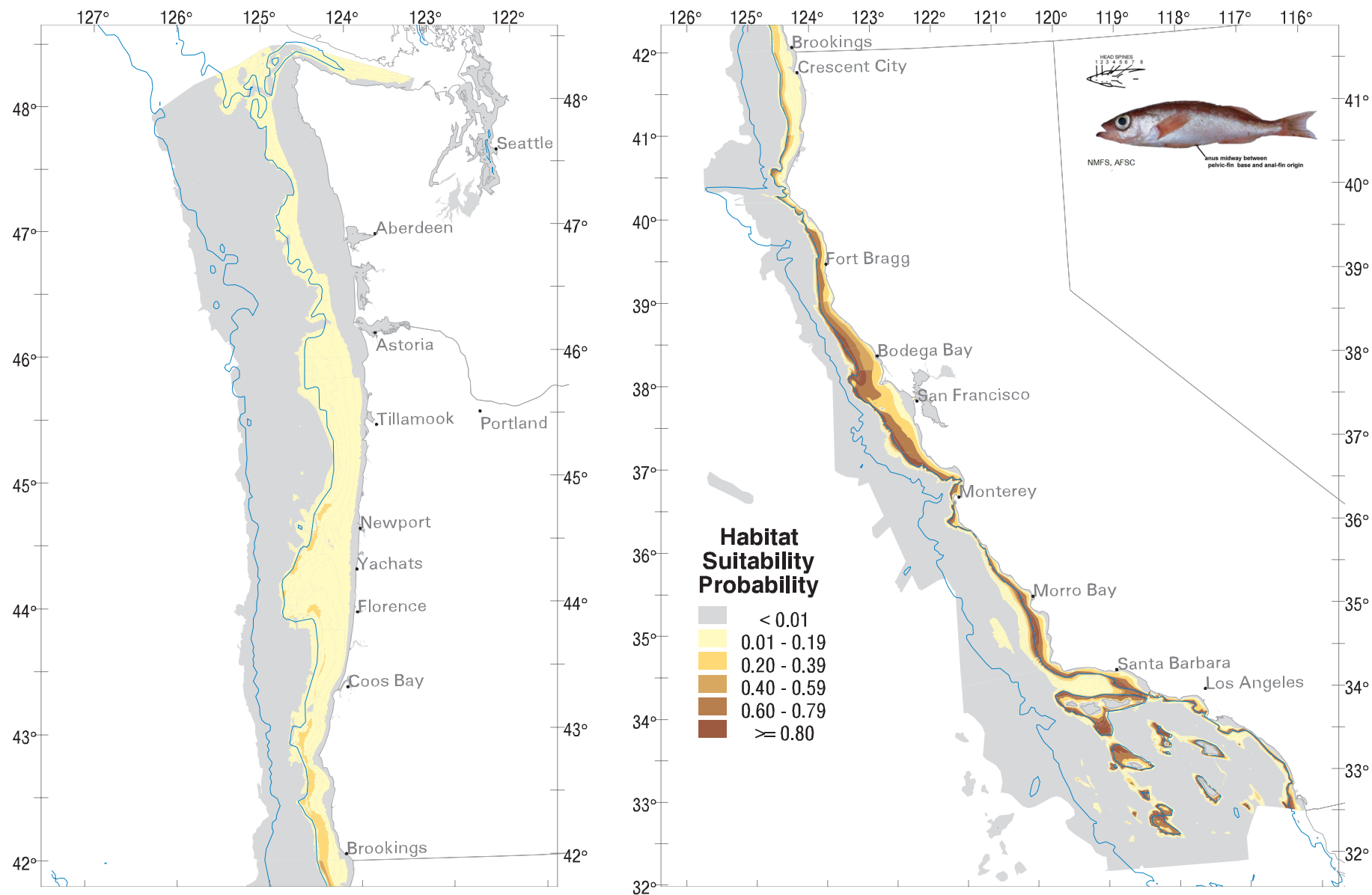
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Shorttraker Rockfish - Adult



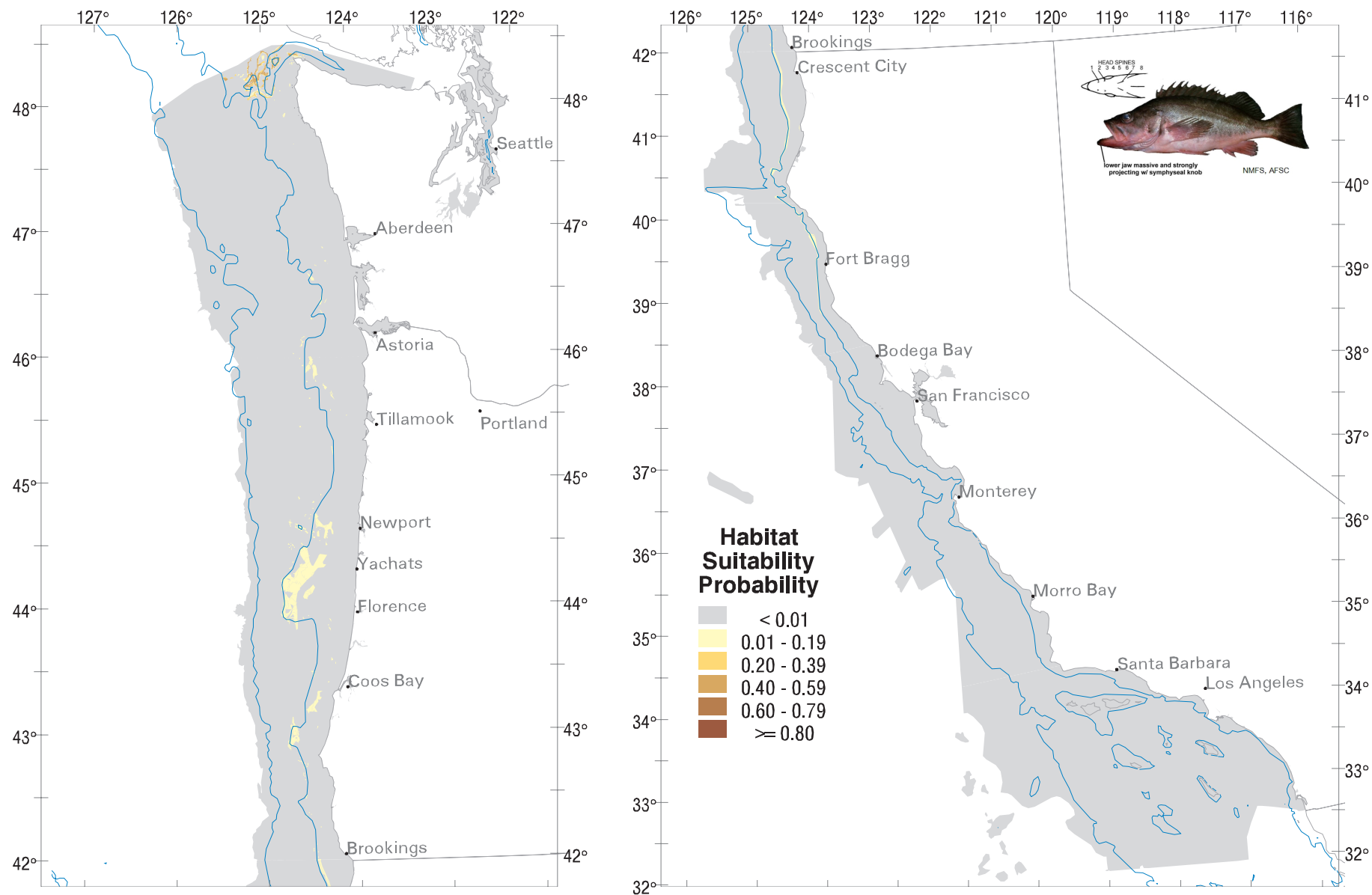
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Shortbelly Rockfish - Adult



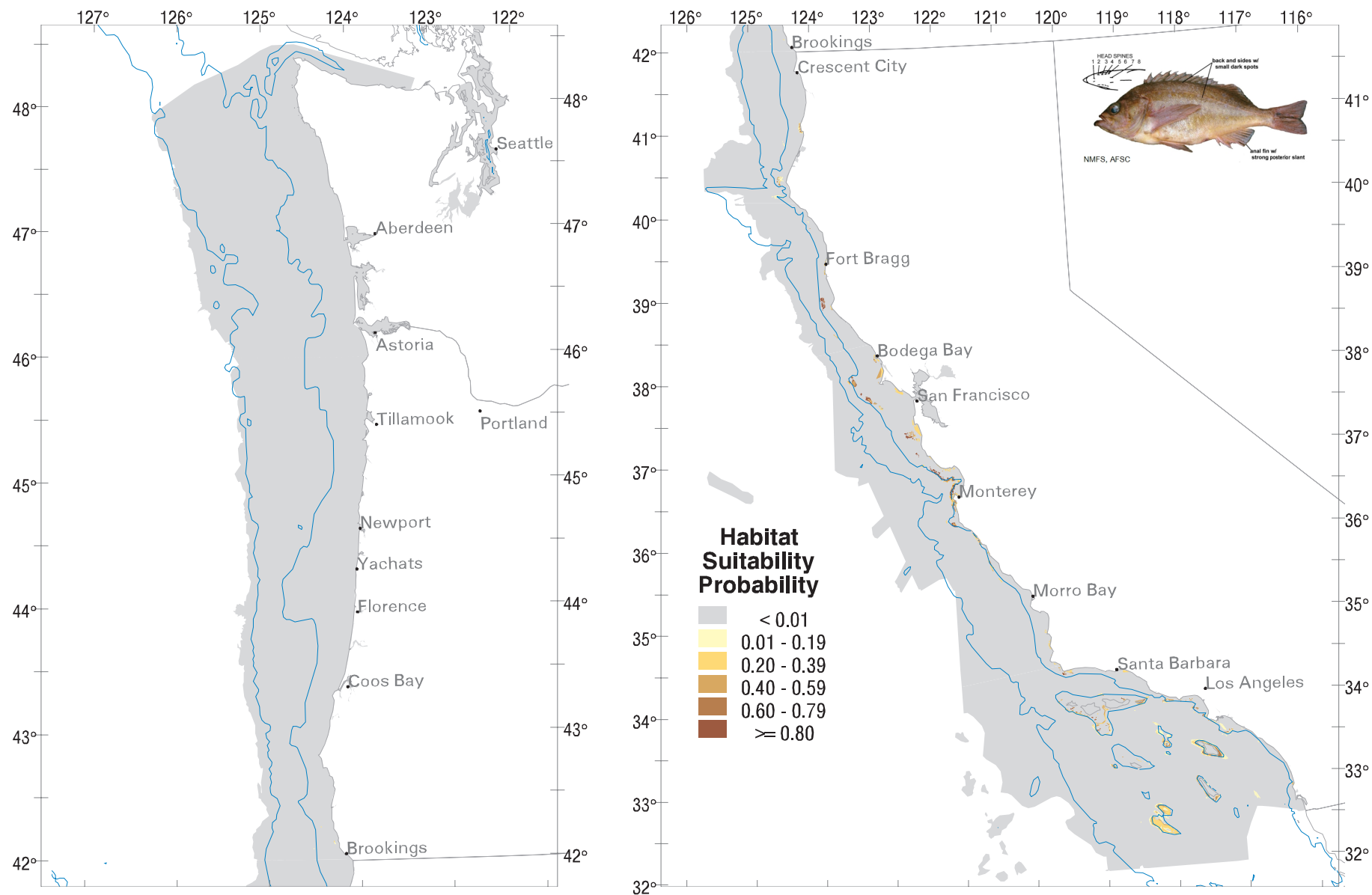
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey+

Silvergray Rockfish - Adult



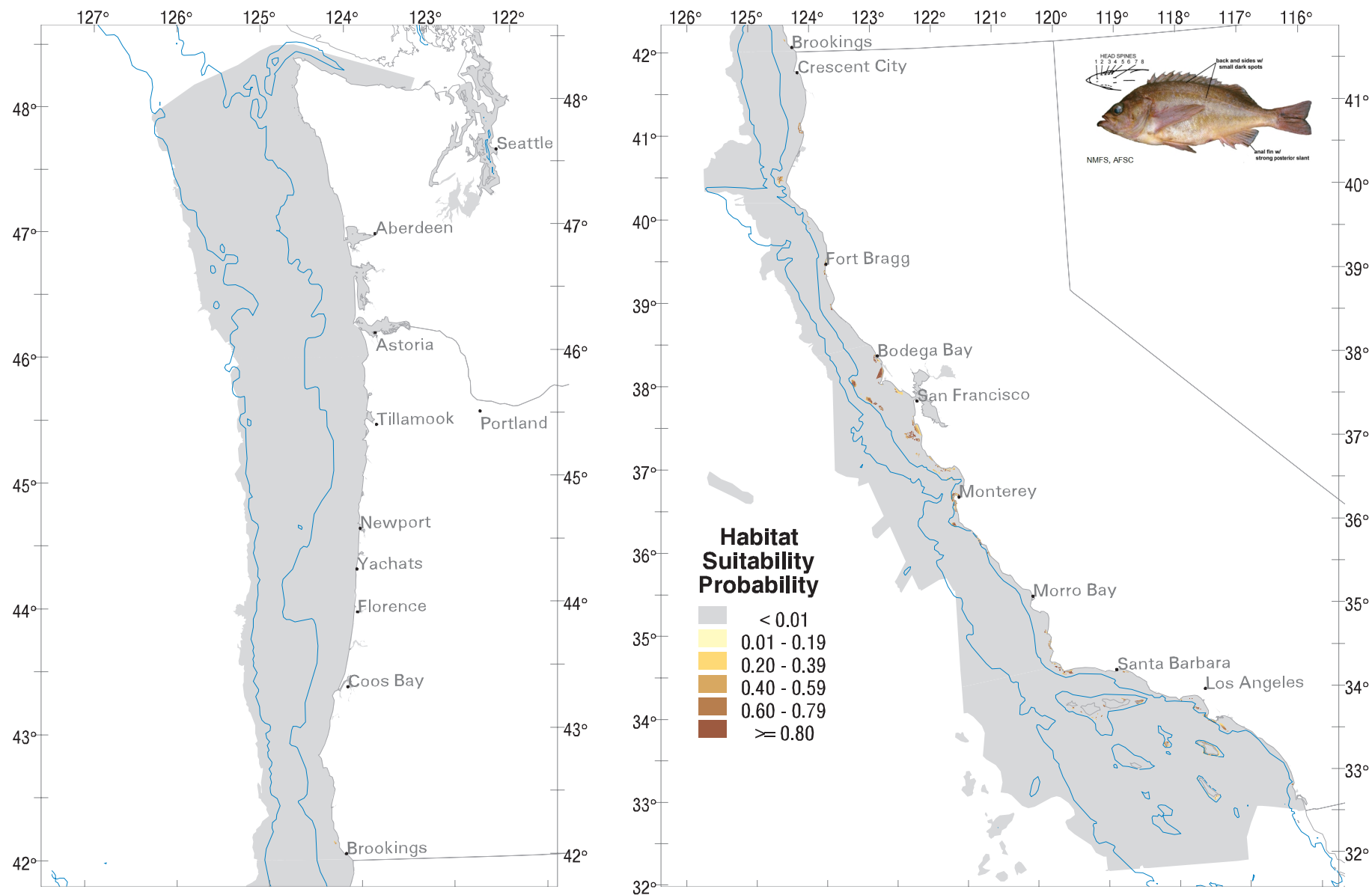
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey

Speckled Rockfish - Adult



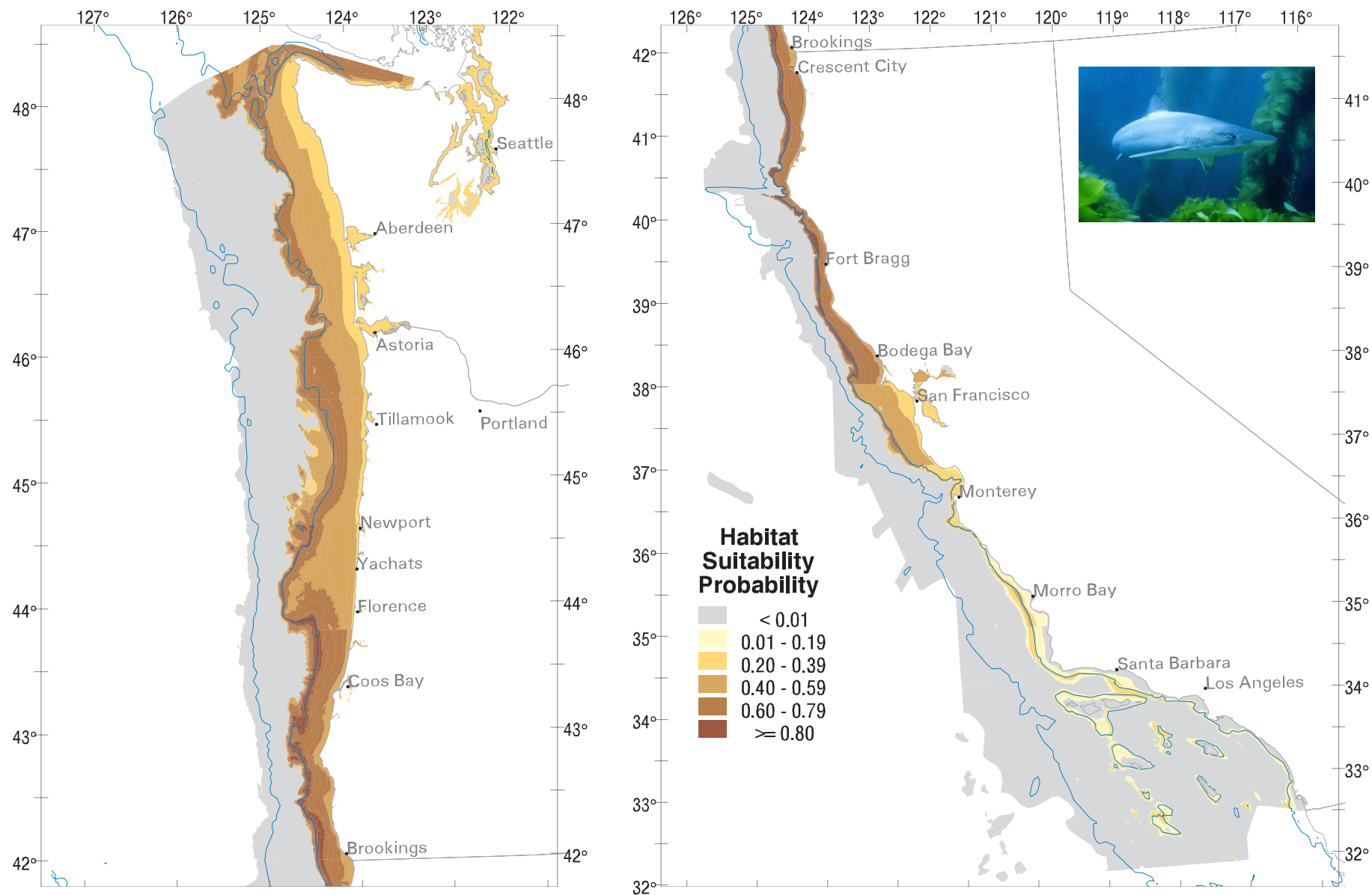
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Speckled Rockfish - Juvenile



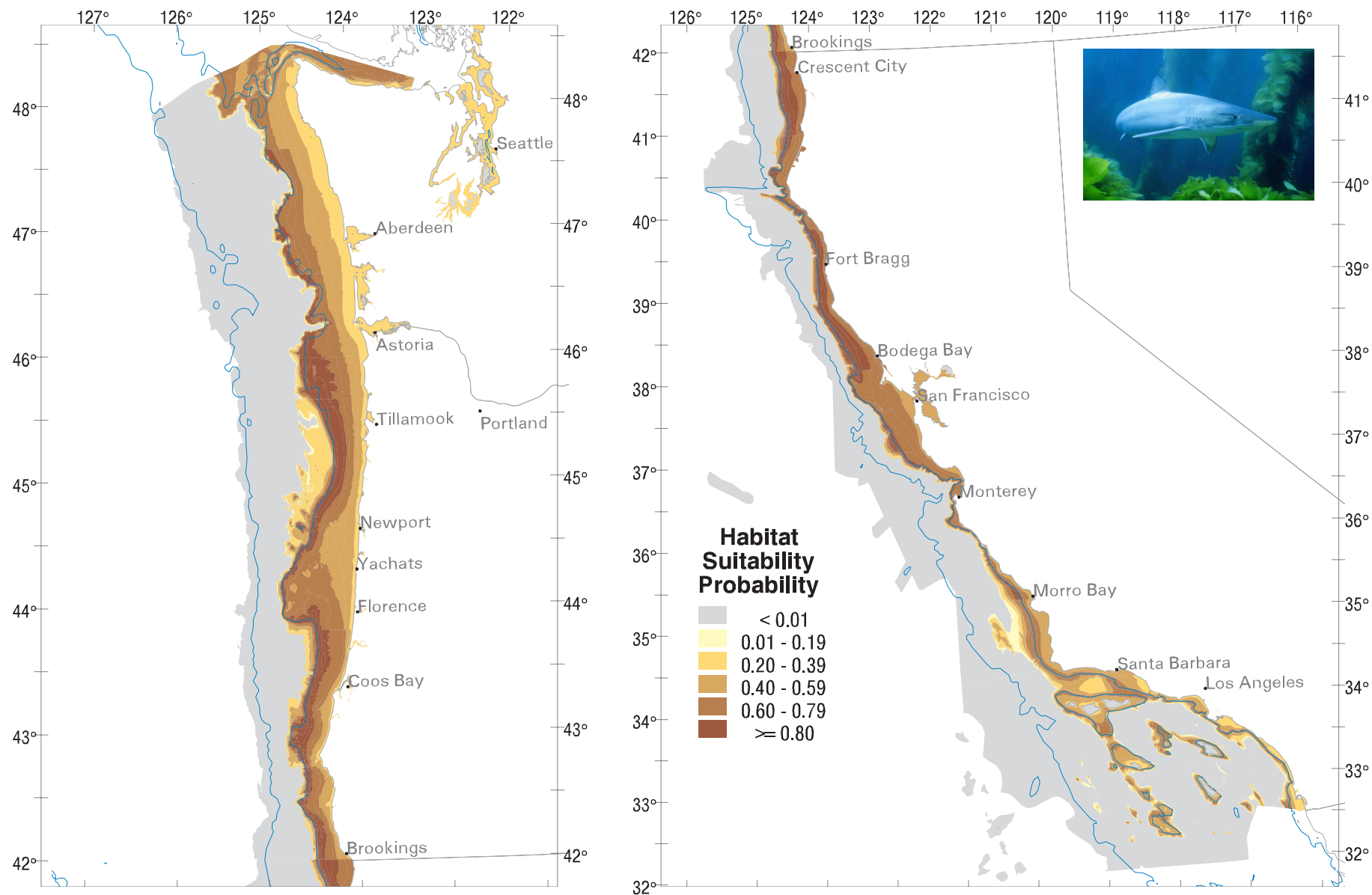
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Soupfín Shark - Adult



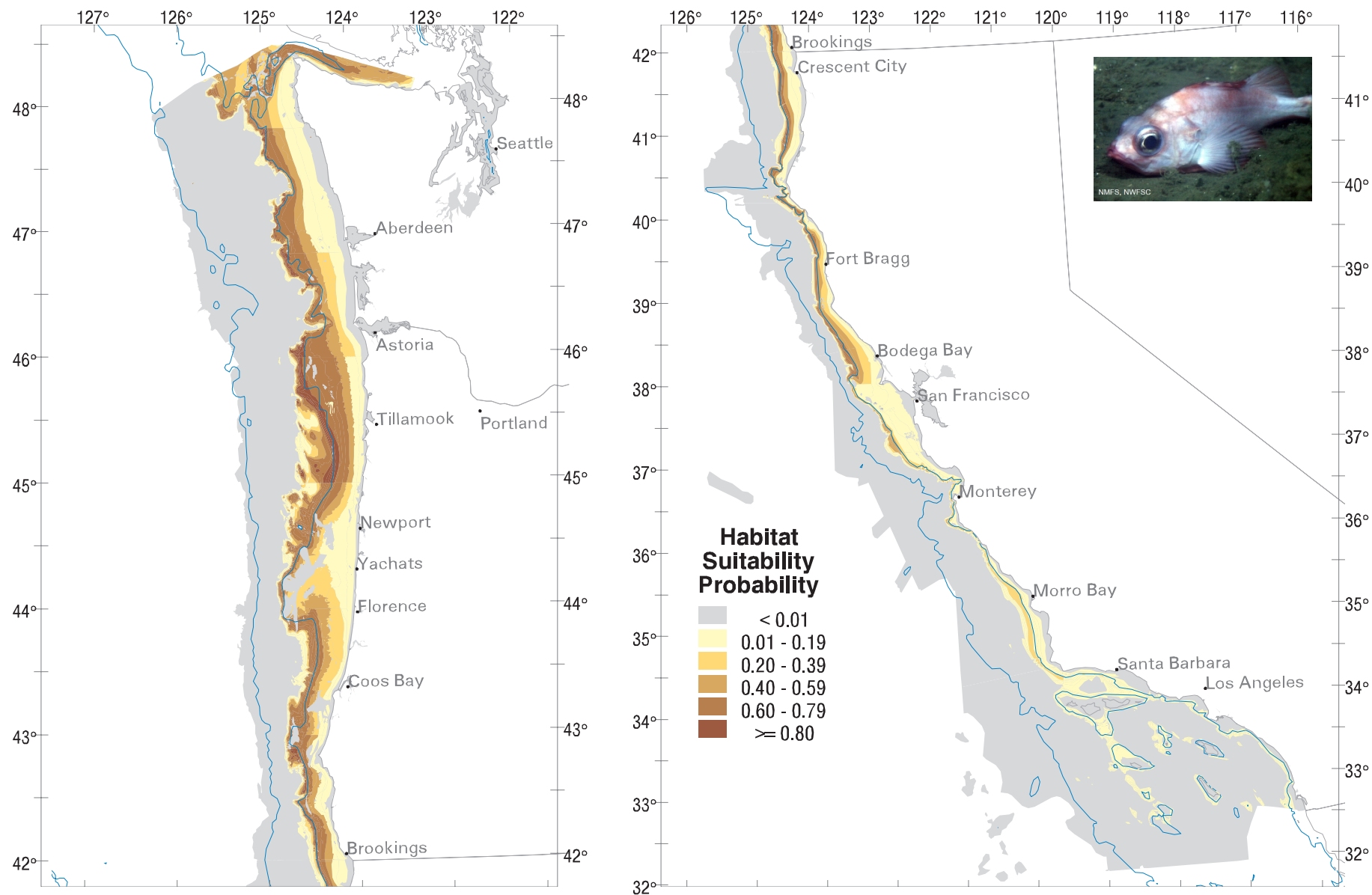
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Soupfish Shark - Juvenile



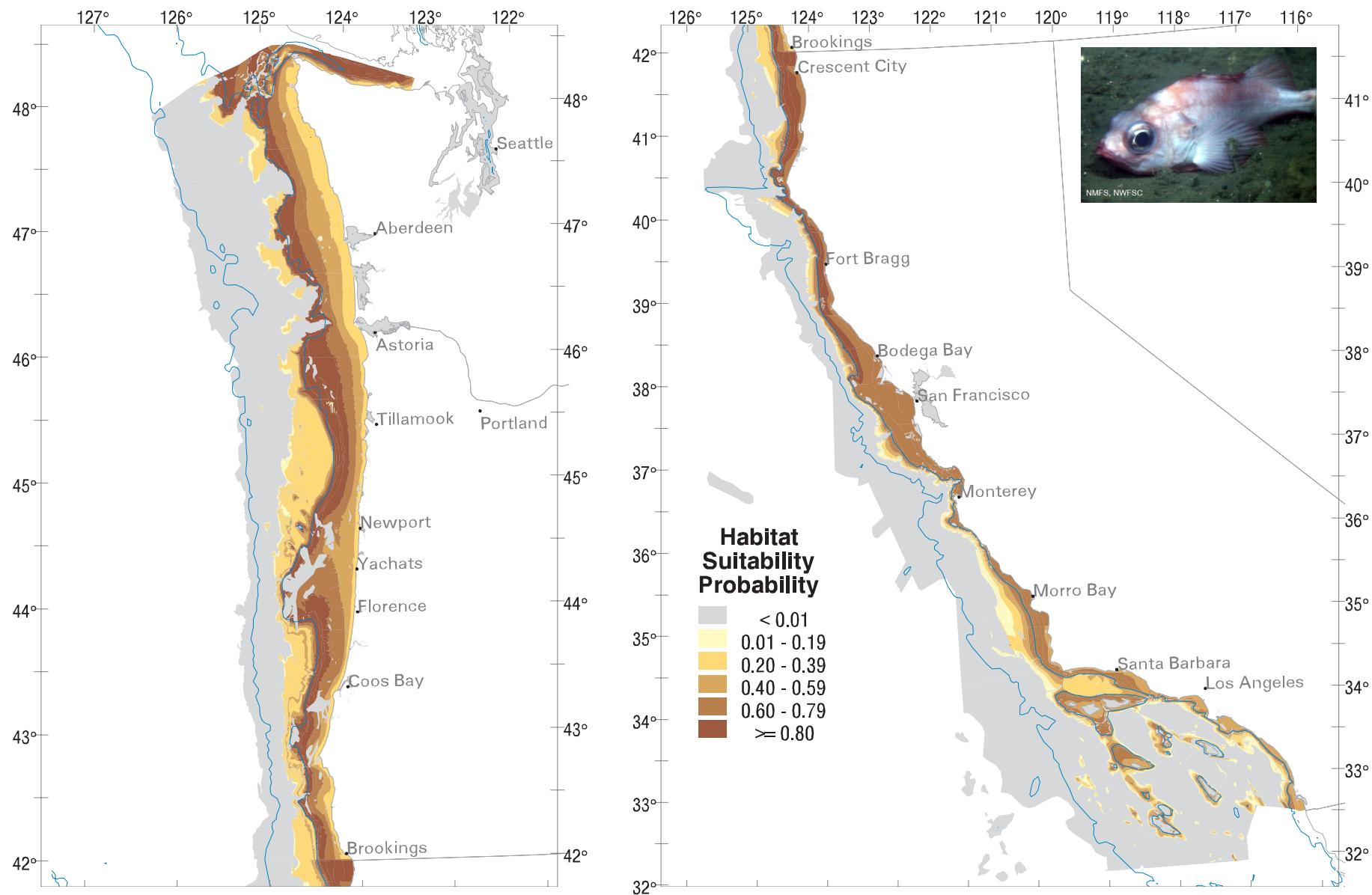
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Splitnose Rockfish - Adult



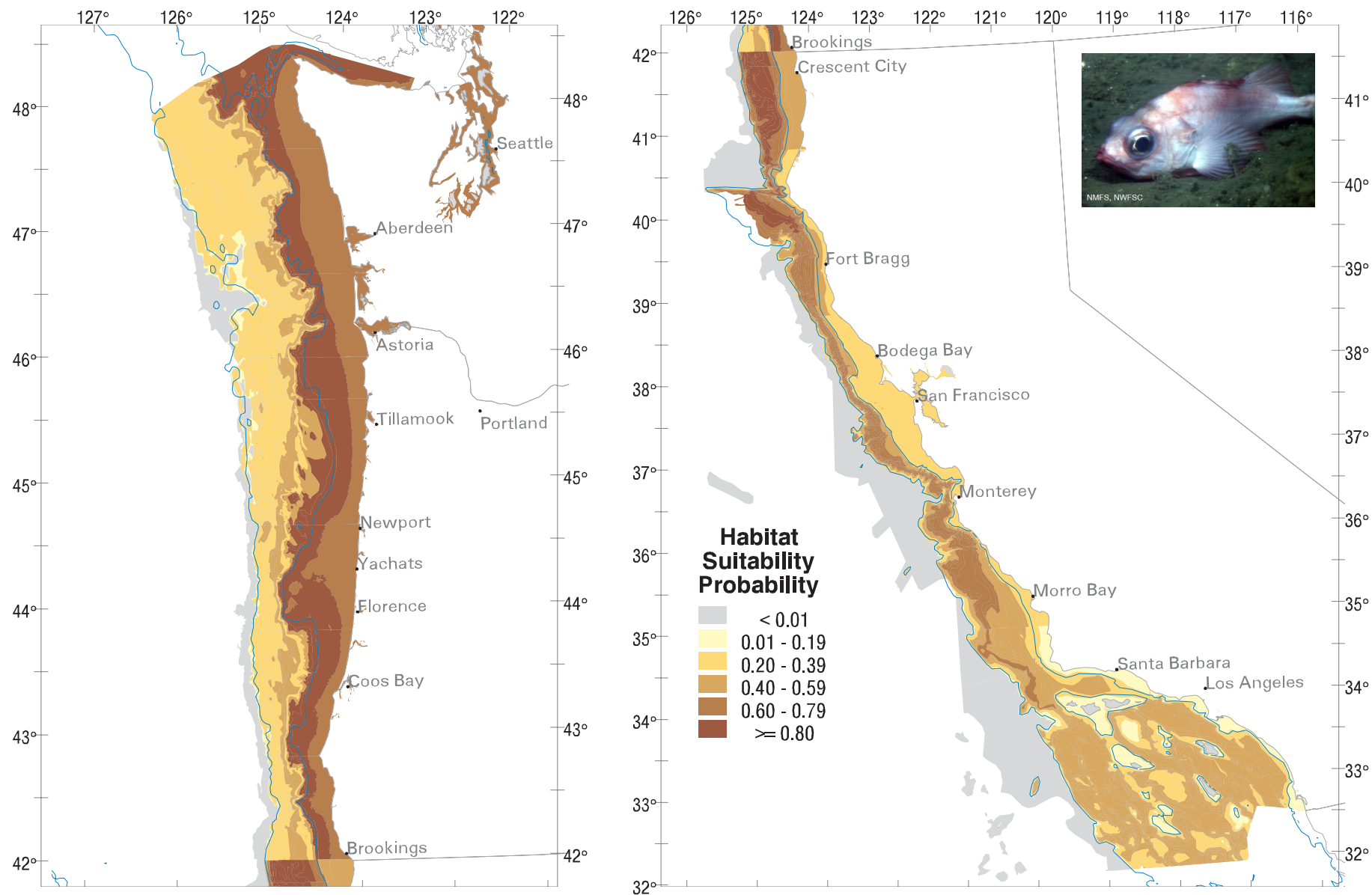
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey*

Splitnose Rockfish - Juvenile



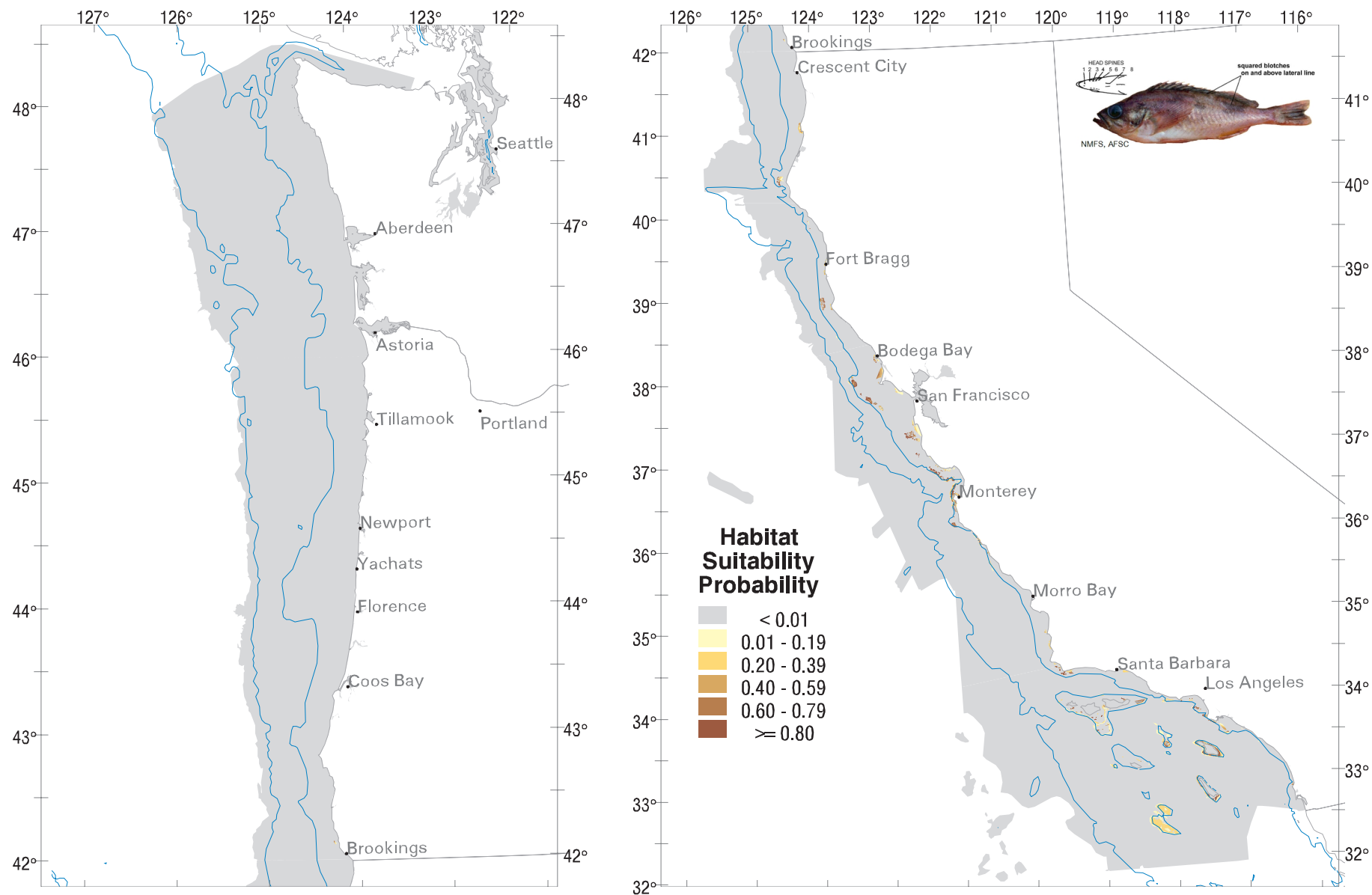
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Splitnose Rockfish - Larvae



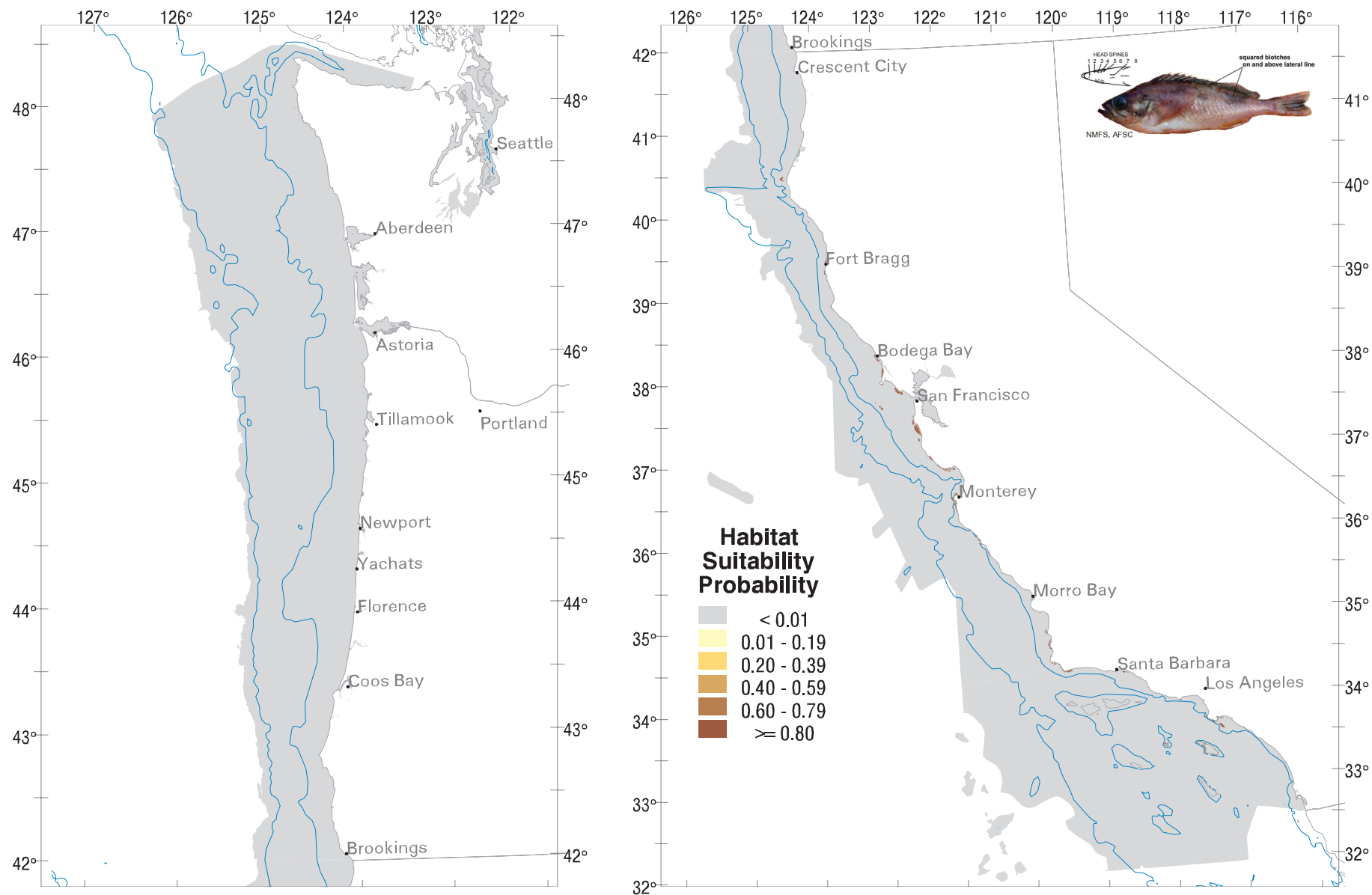
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Squarespot Rockfish - Adult



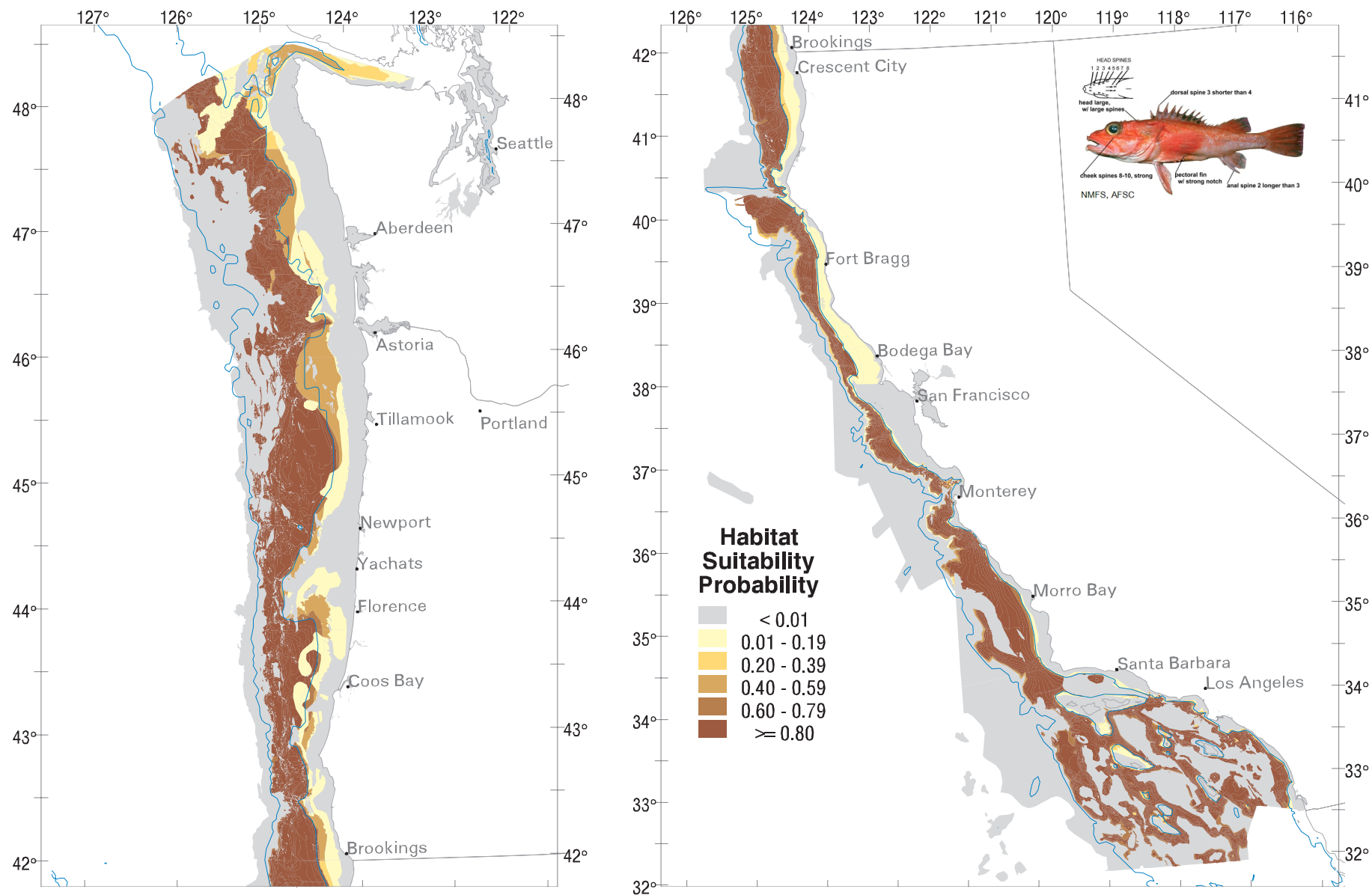
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Squarespot Rockfish - Juvenile



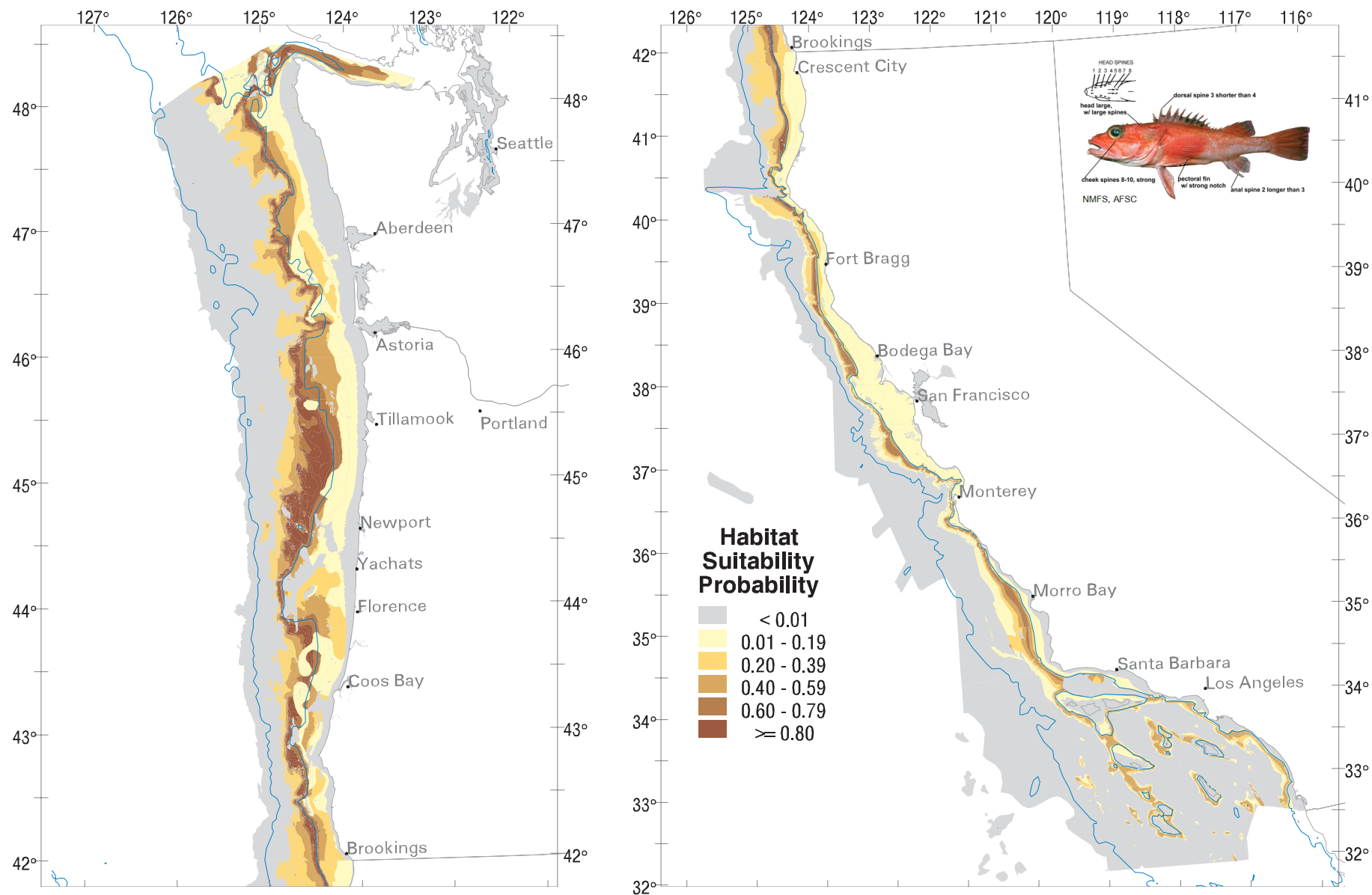
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Shortspine Thornyhead - Adult



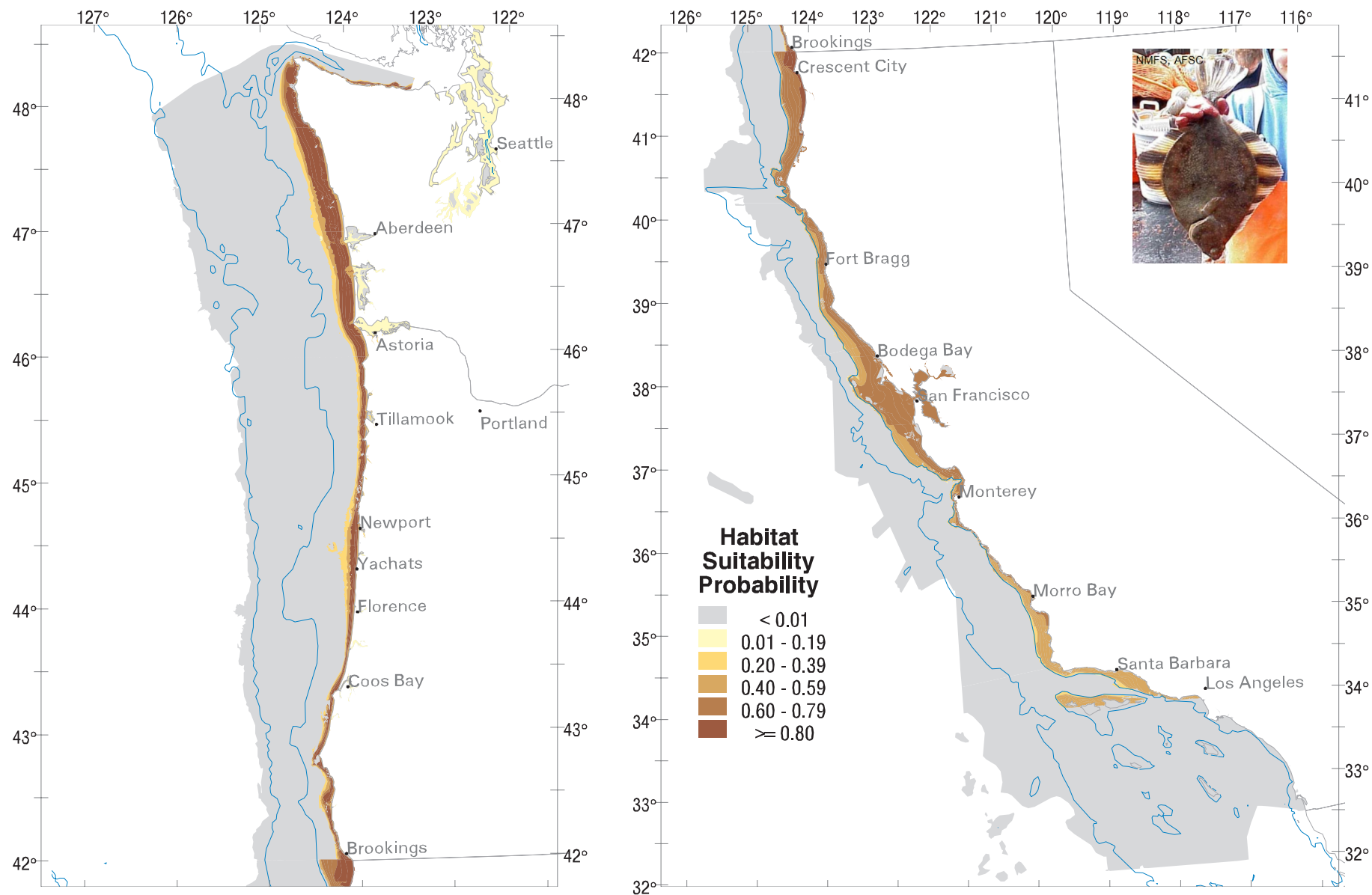
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: 'HUD & Survey'*

Shortspine Thornyhead - Juvenile



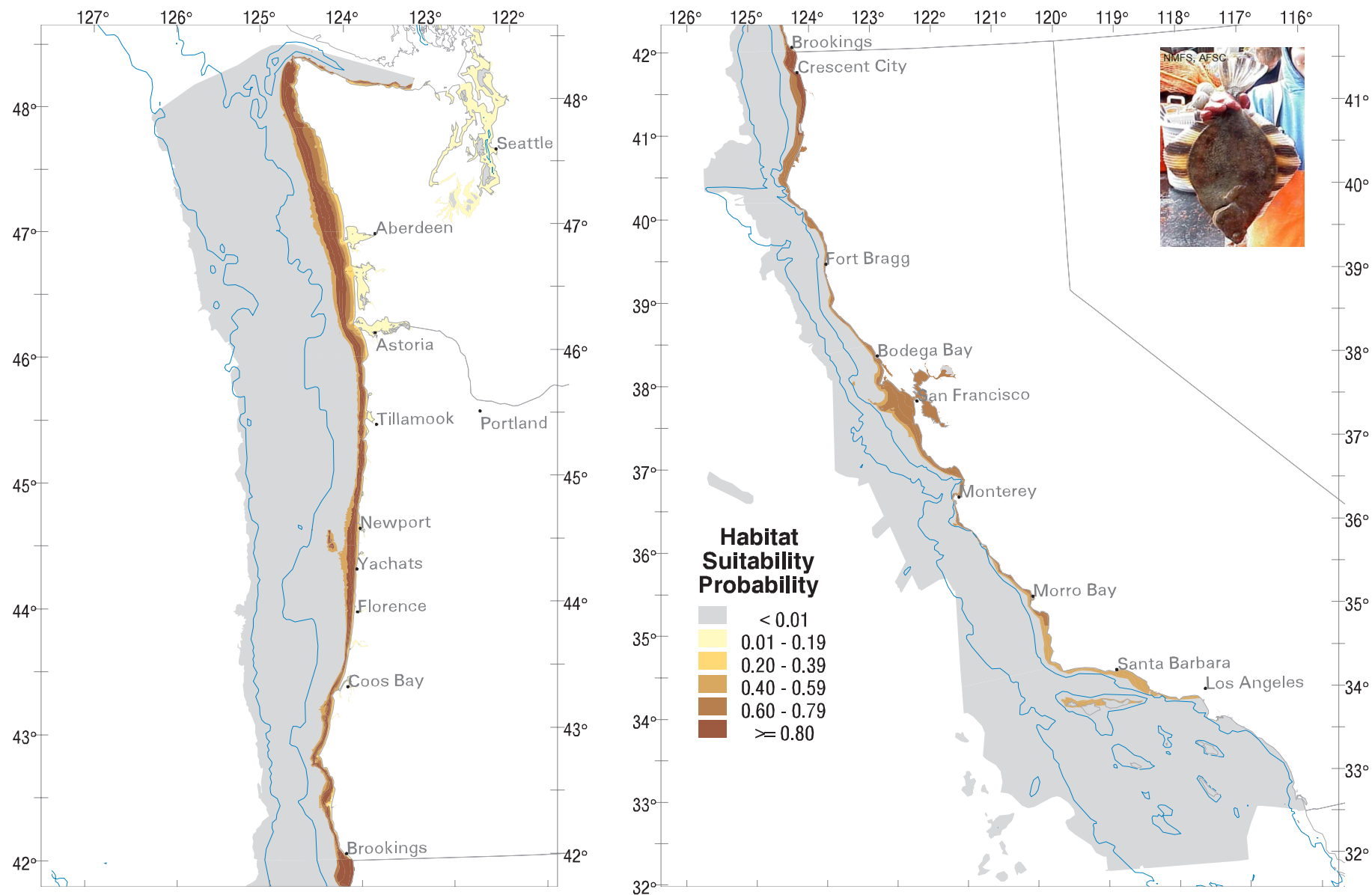
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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Starry Flounder - Adult



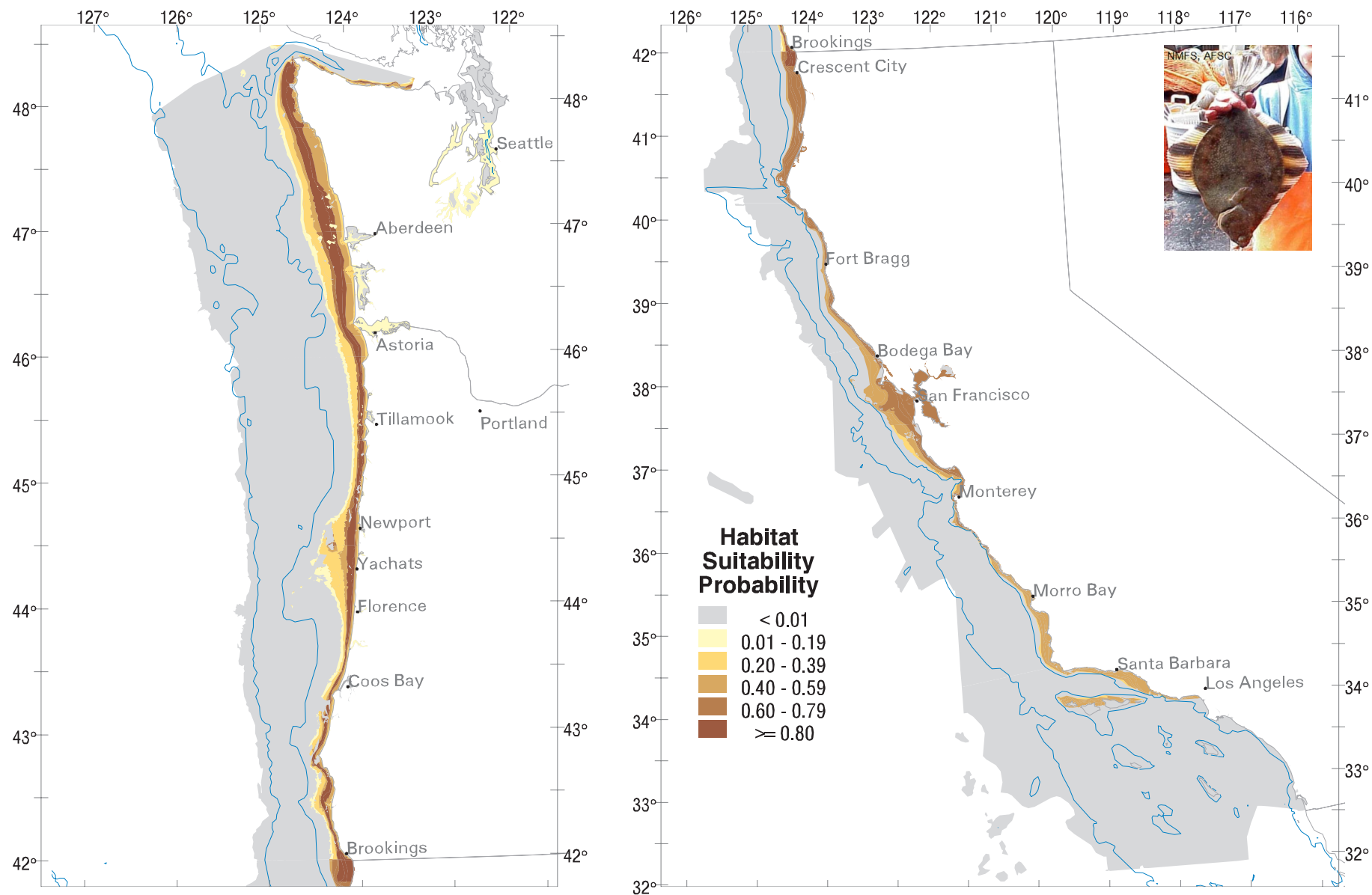
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Starry Flounder - Eggs



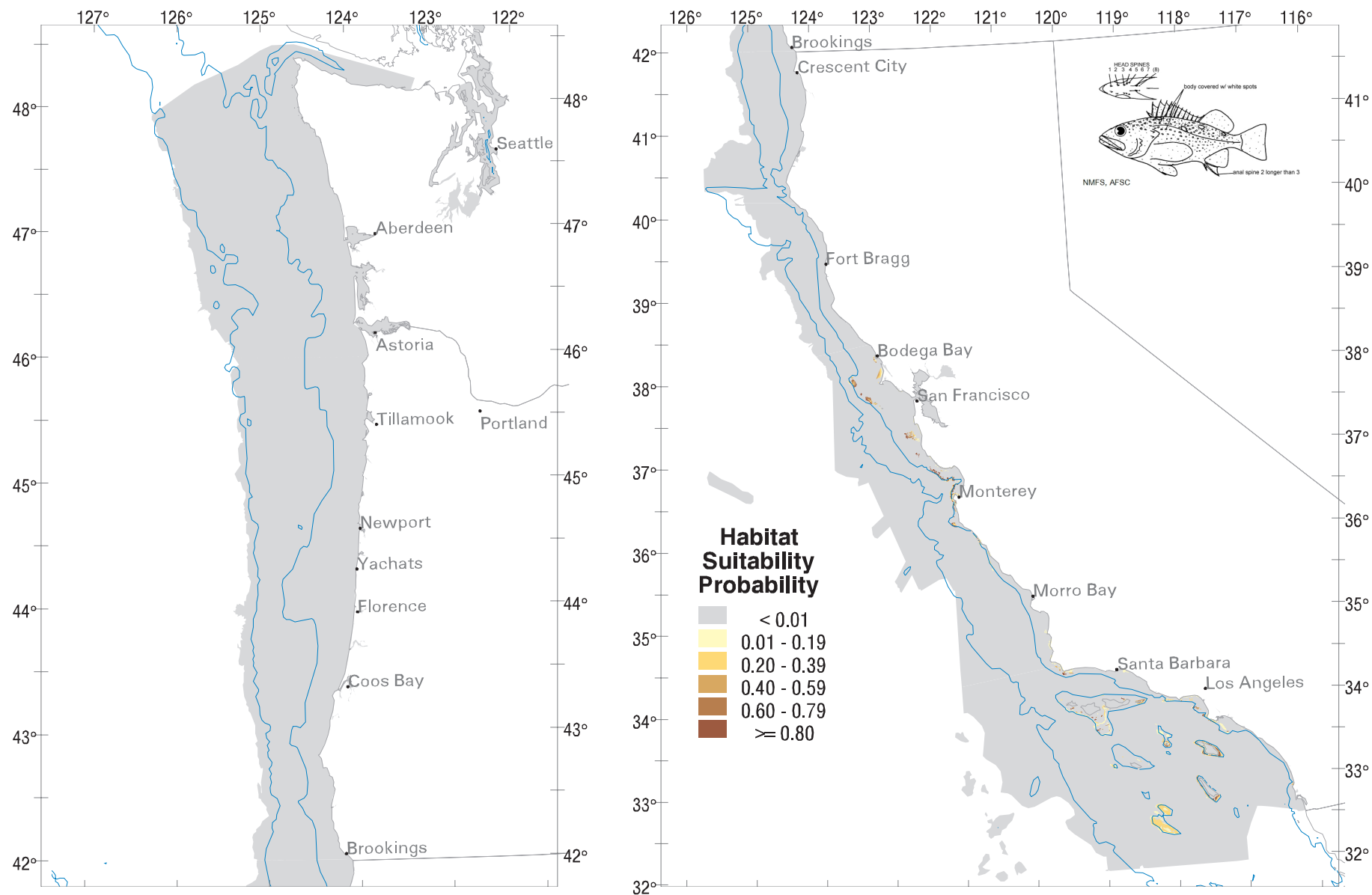
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 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Starry Flounder - Juvenile



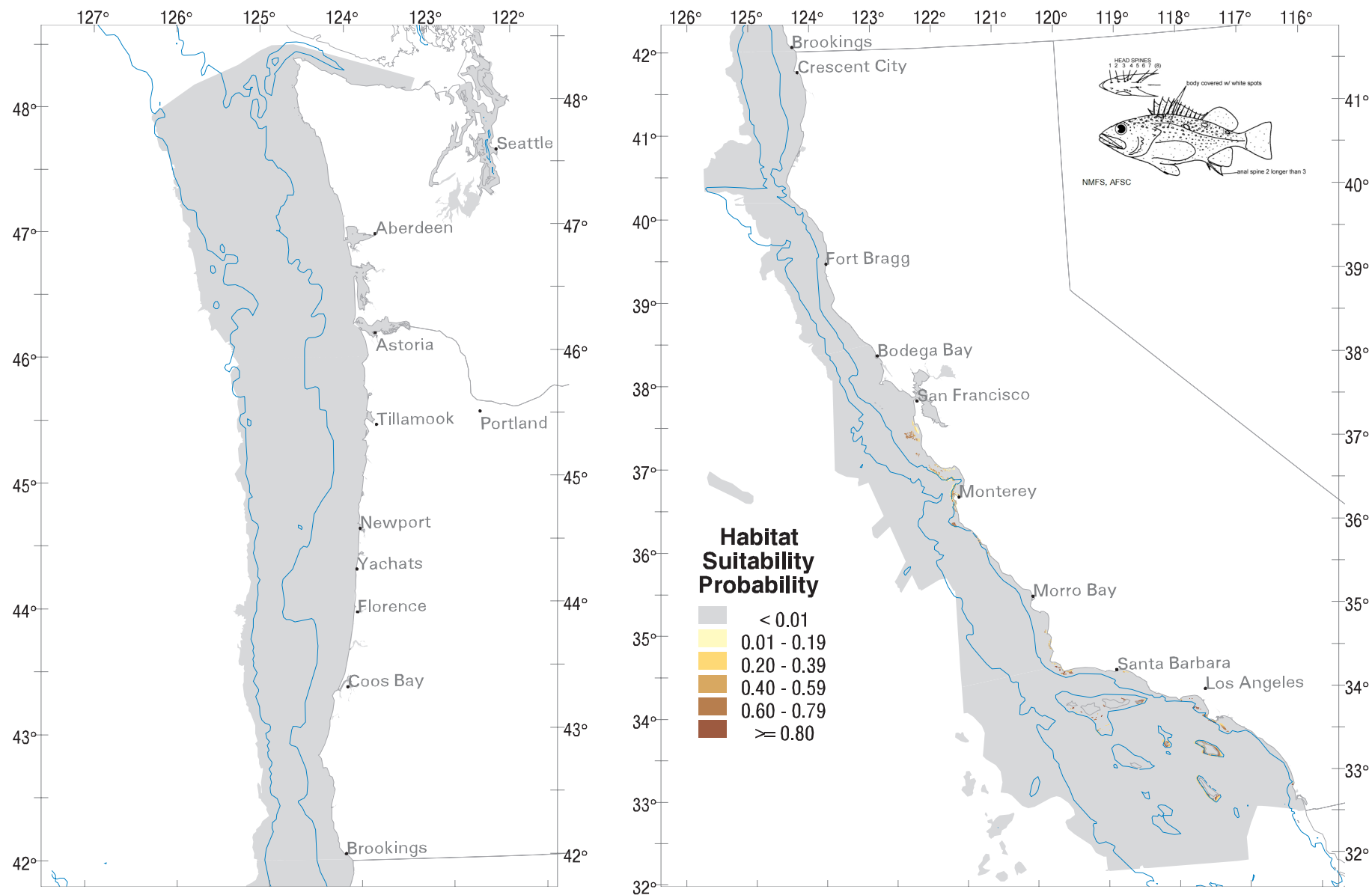
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Starry Rockfish - Adult



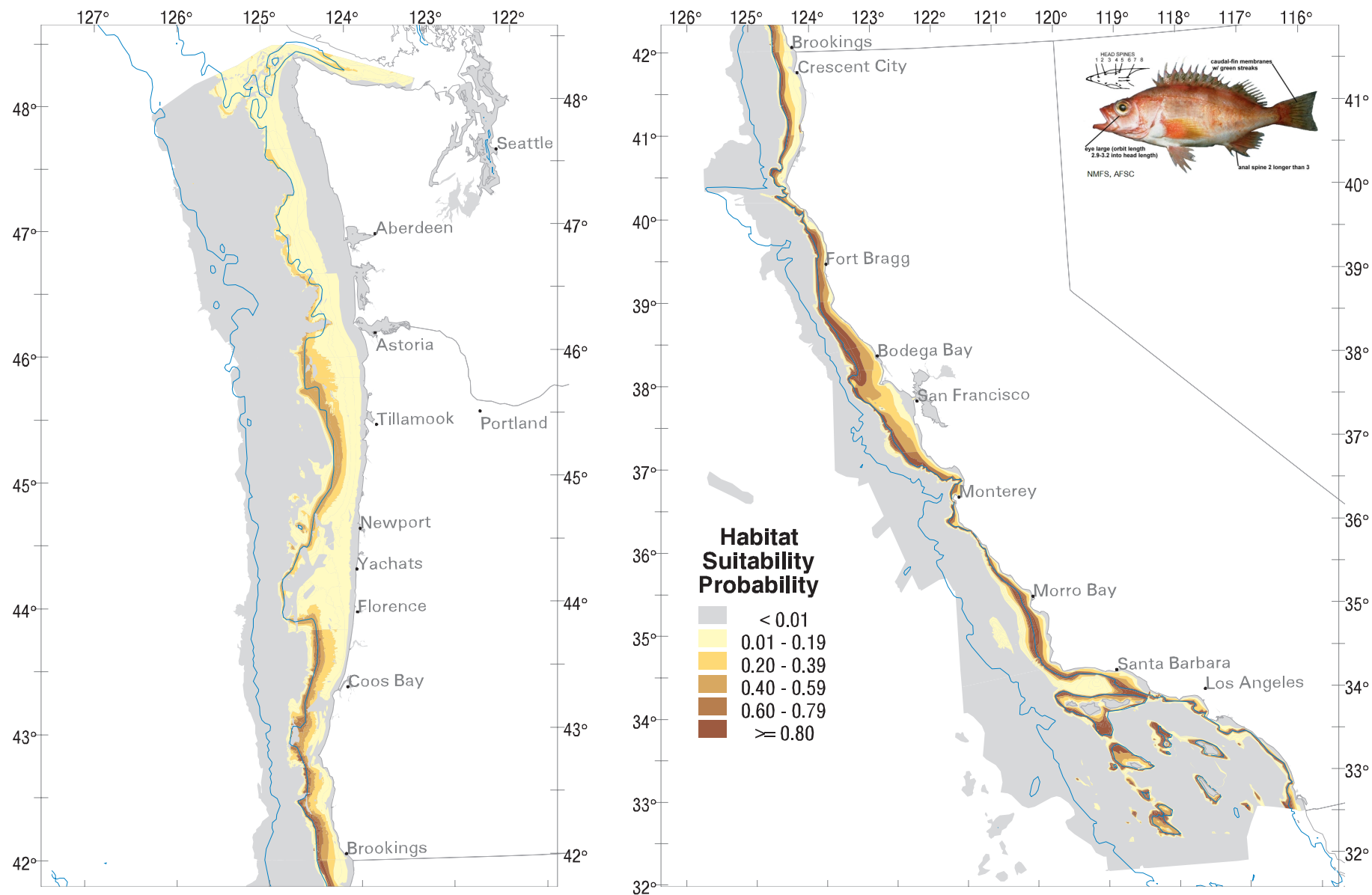
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Starry Rockfish - Juvenile



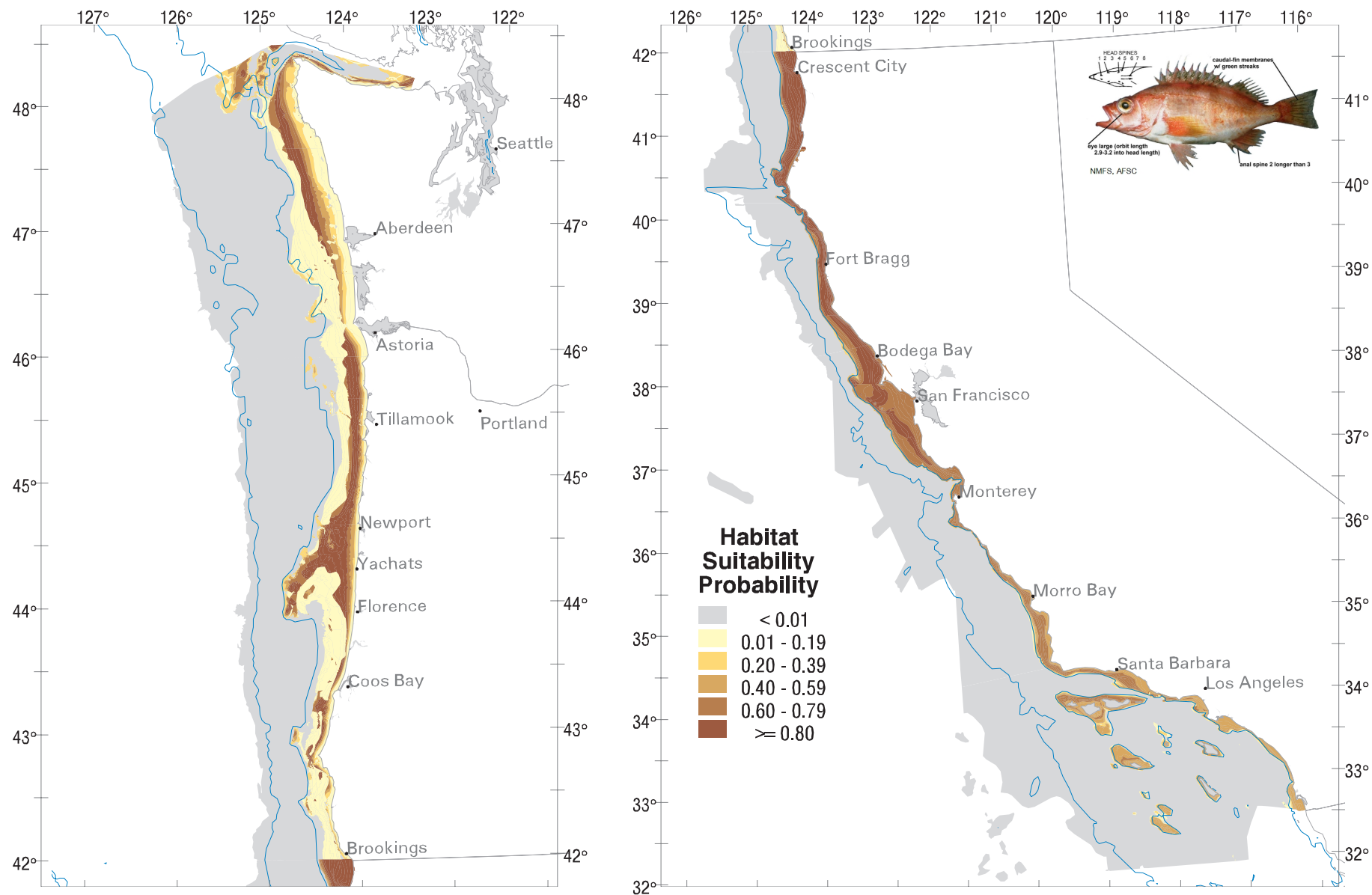
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Stripetail Rockfish - Adult



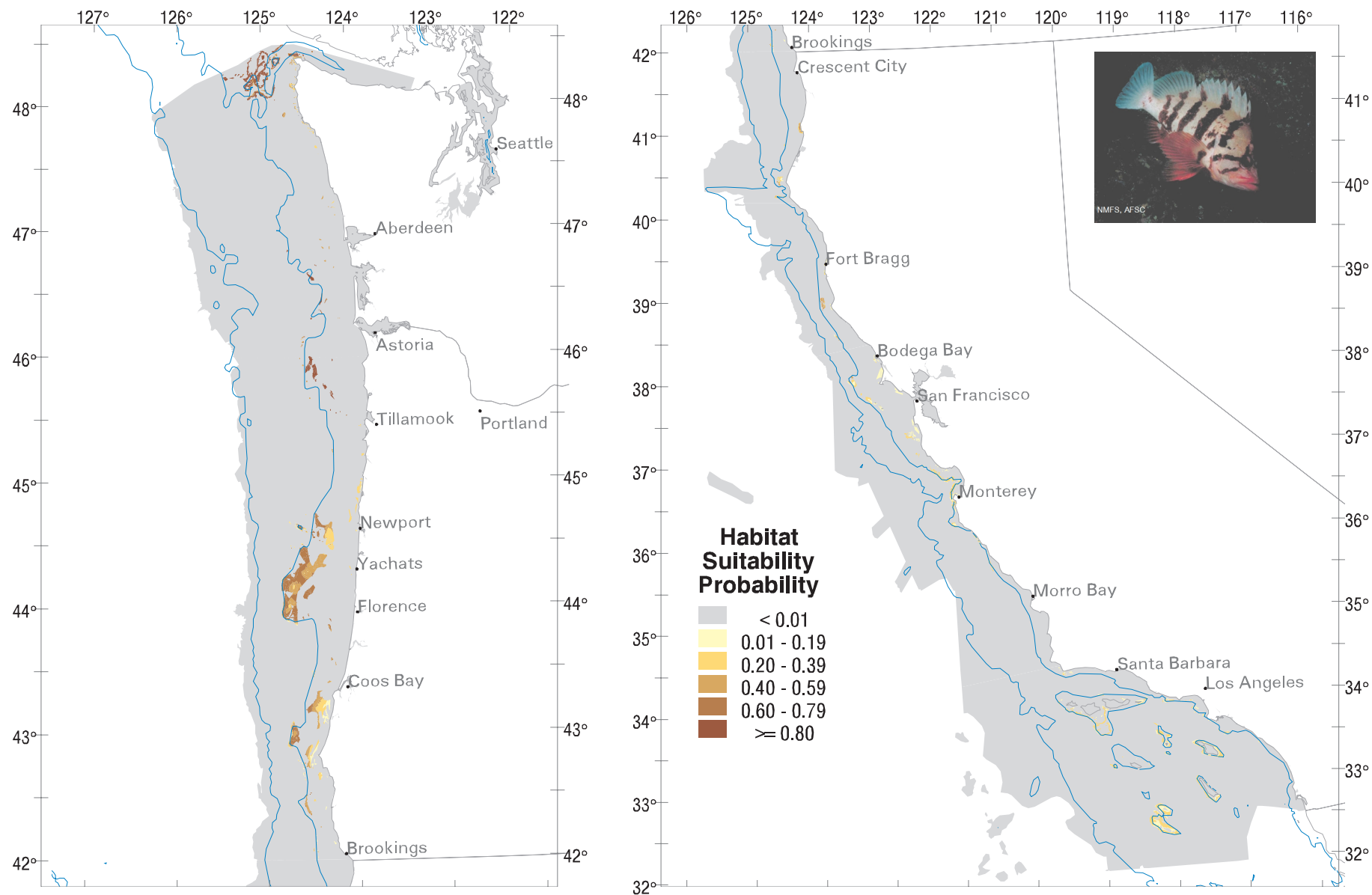
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: Survey+

Stripetail Rockfish - Juvenile



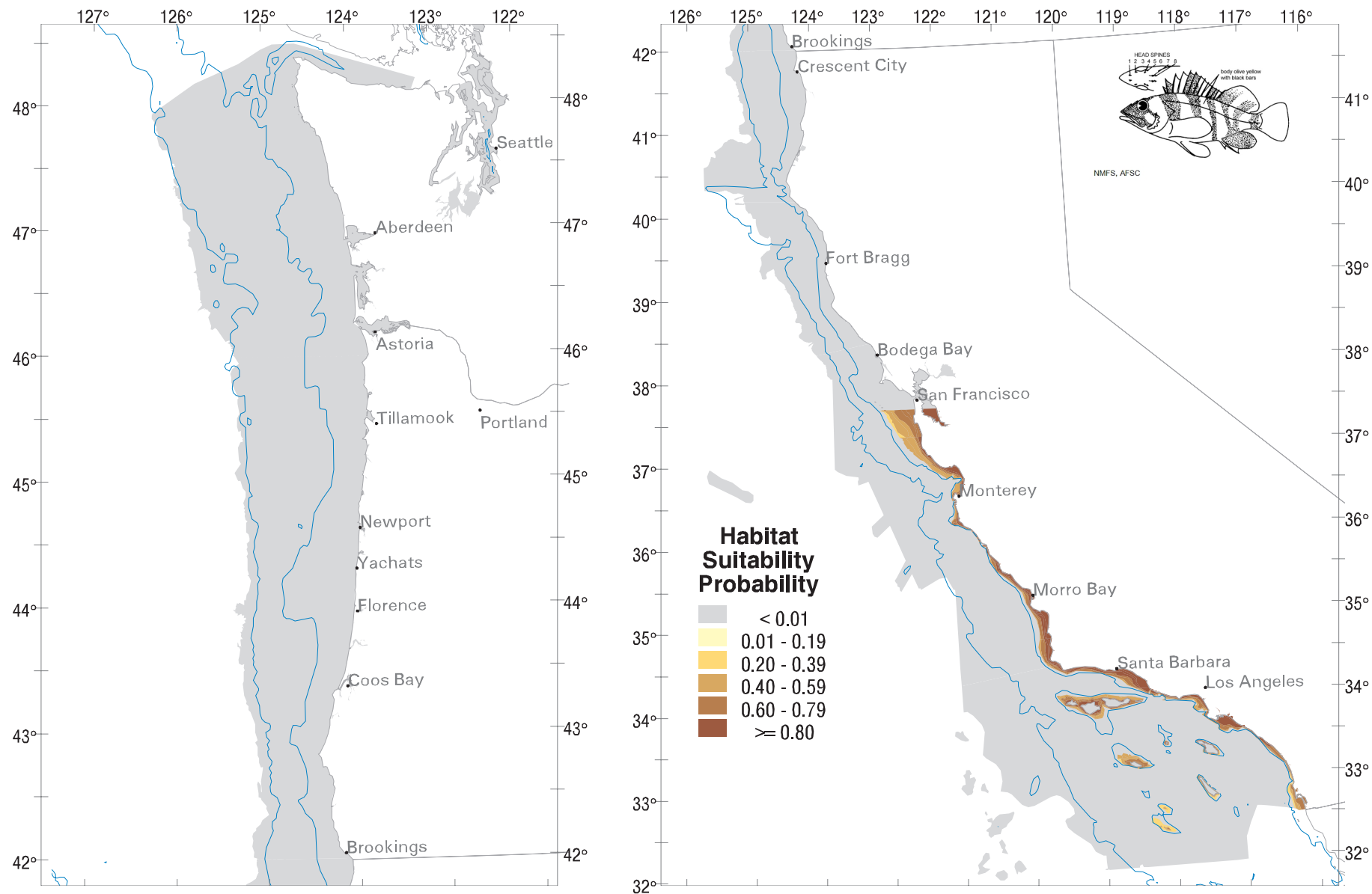
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Tiger Rockfish - Adult



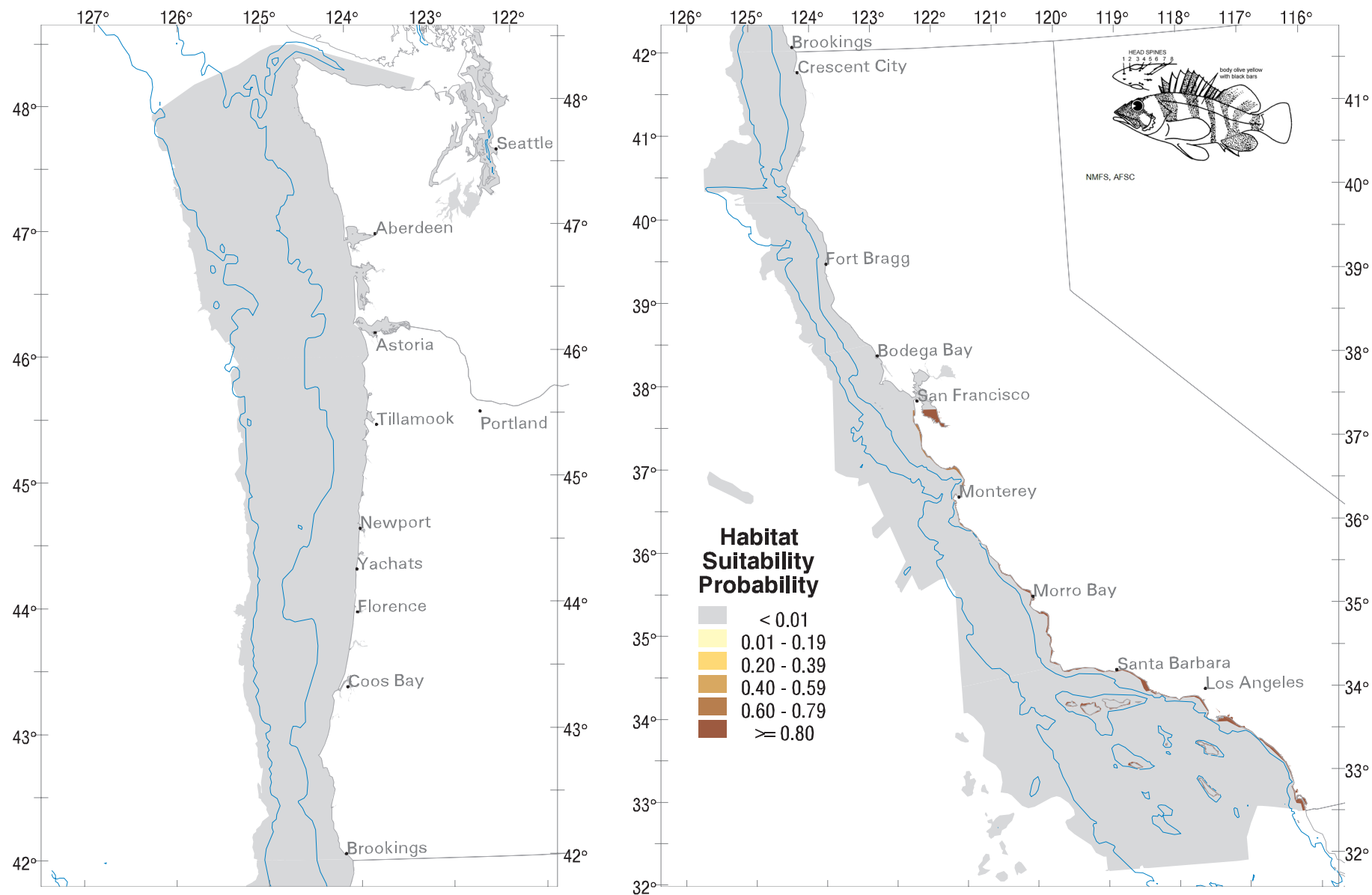
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Treefish - Adult



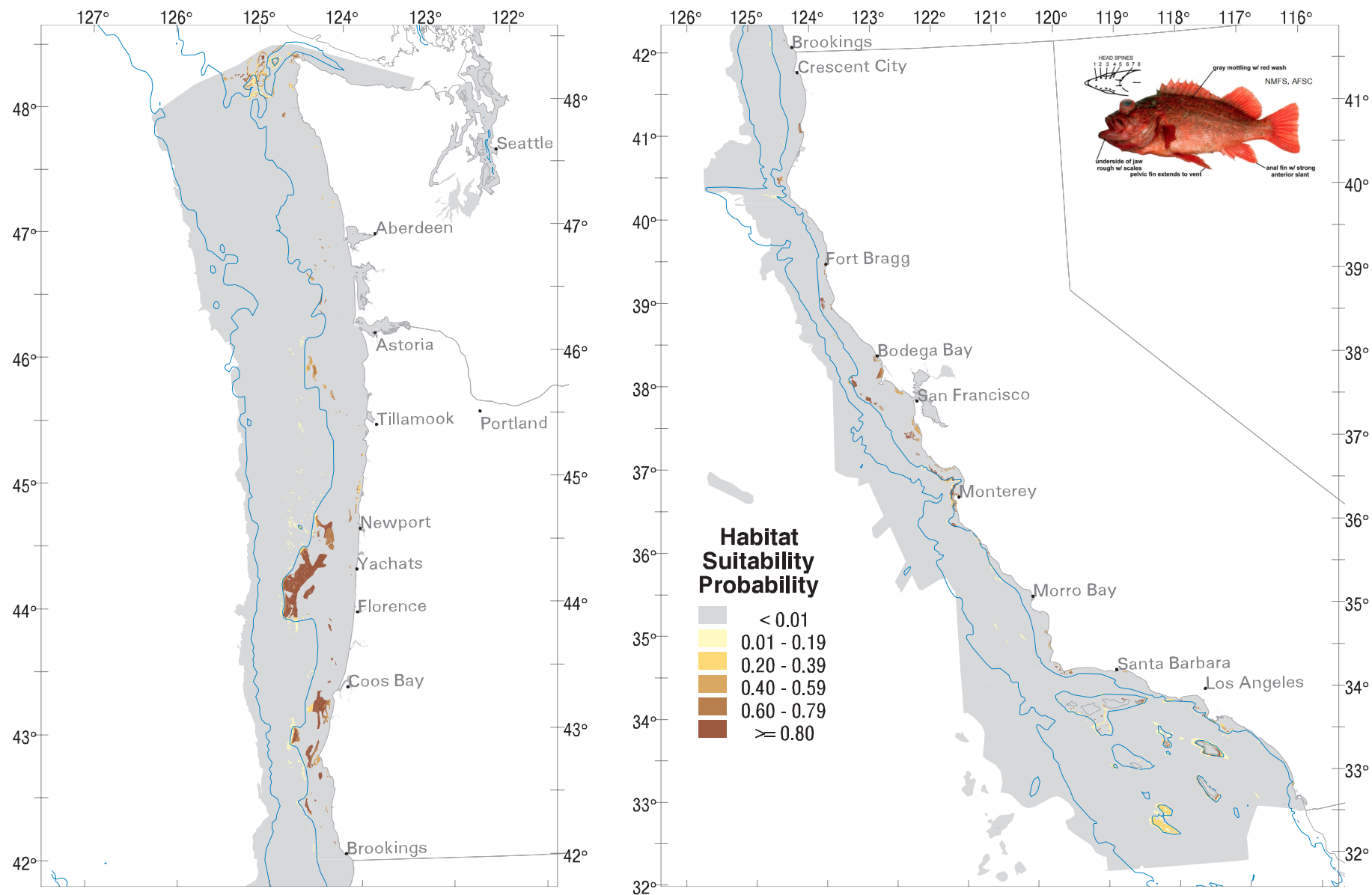
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Treefish - Juvenile



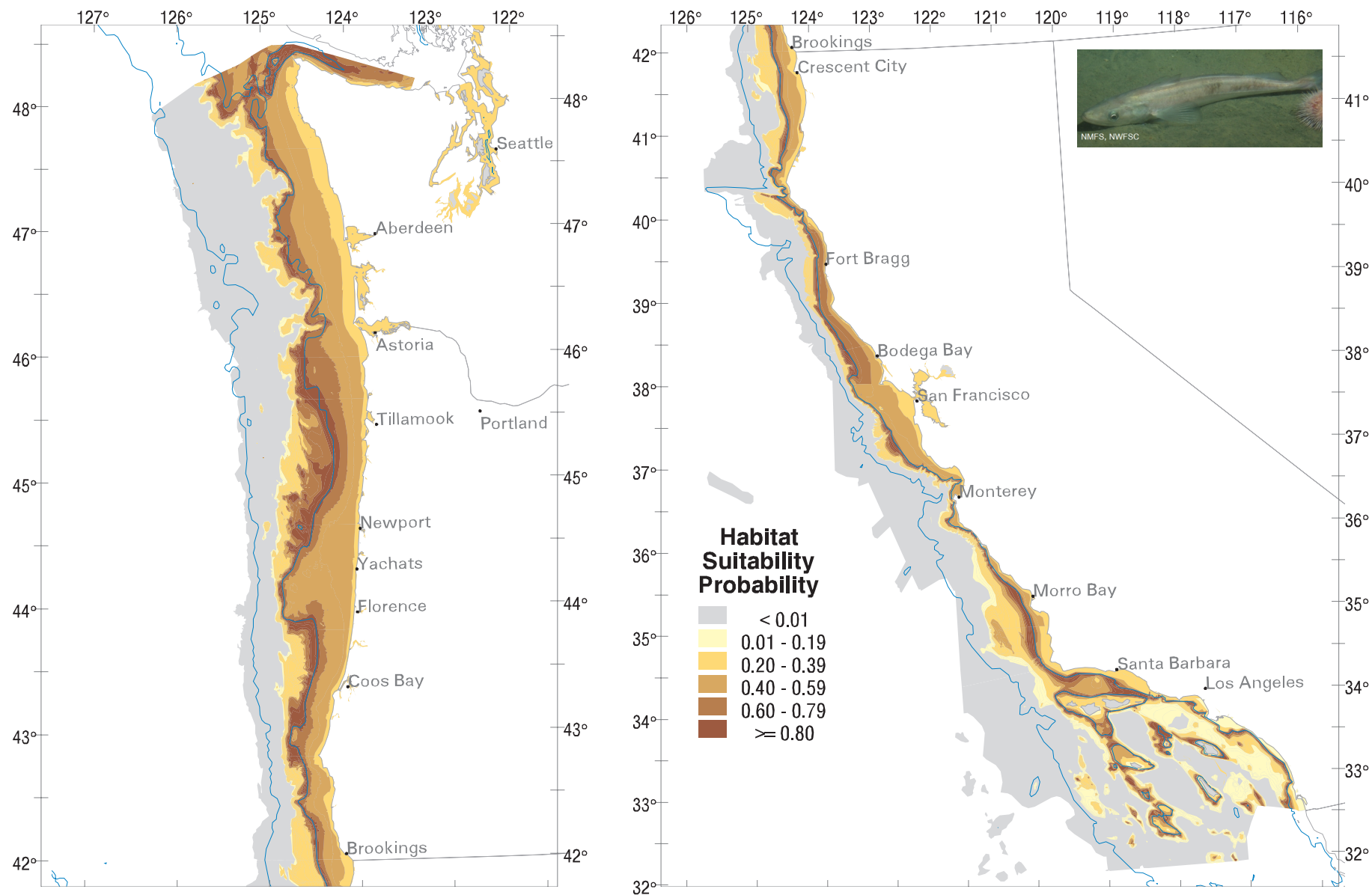
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: October 16, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Vermilion Rockfish - Adult



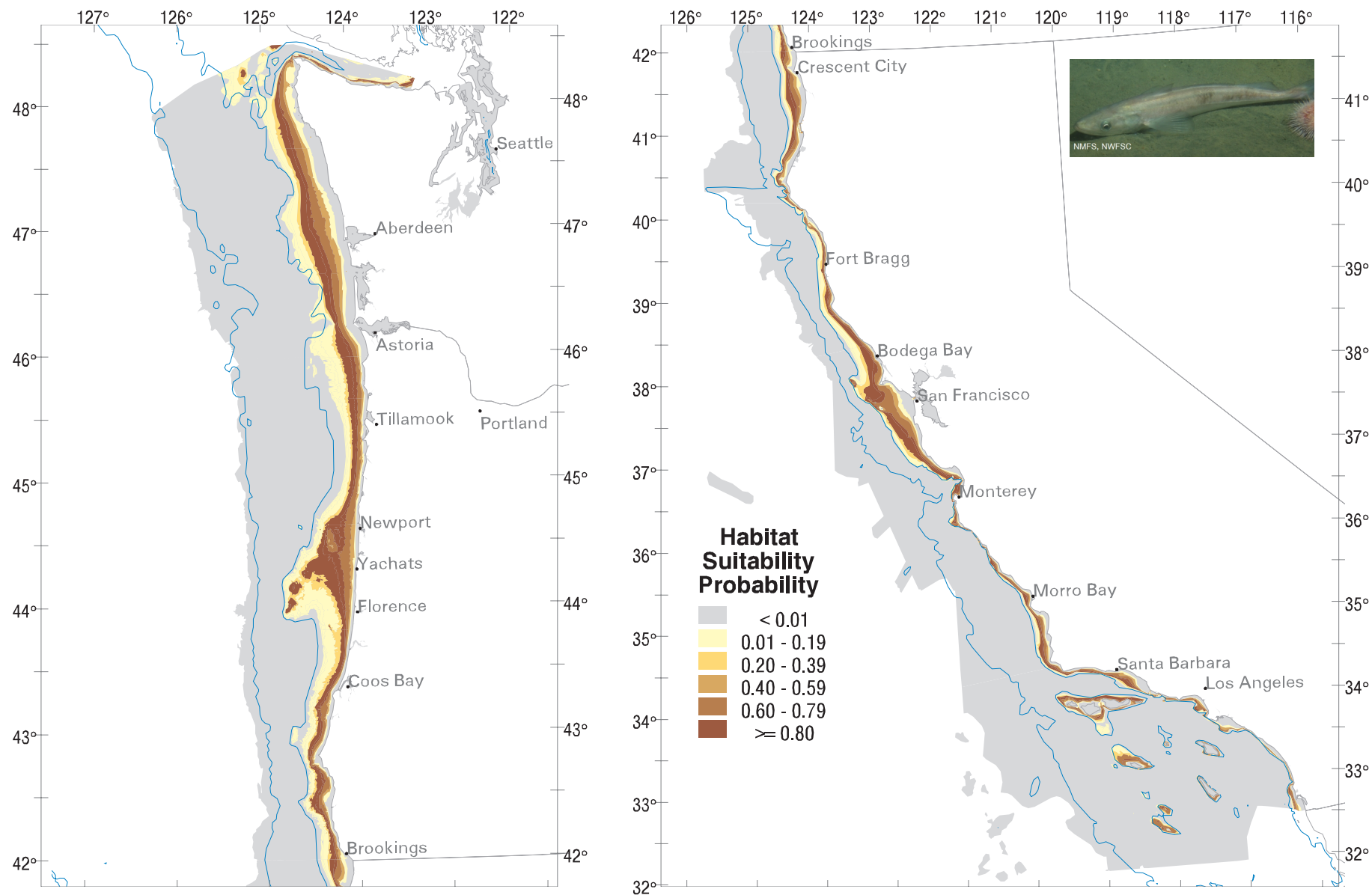
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Pacific Whiting - Adult



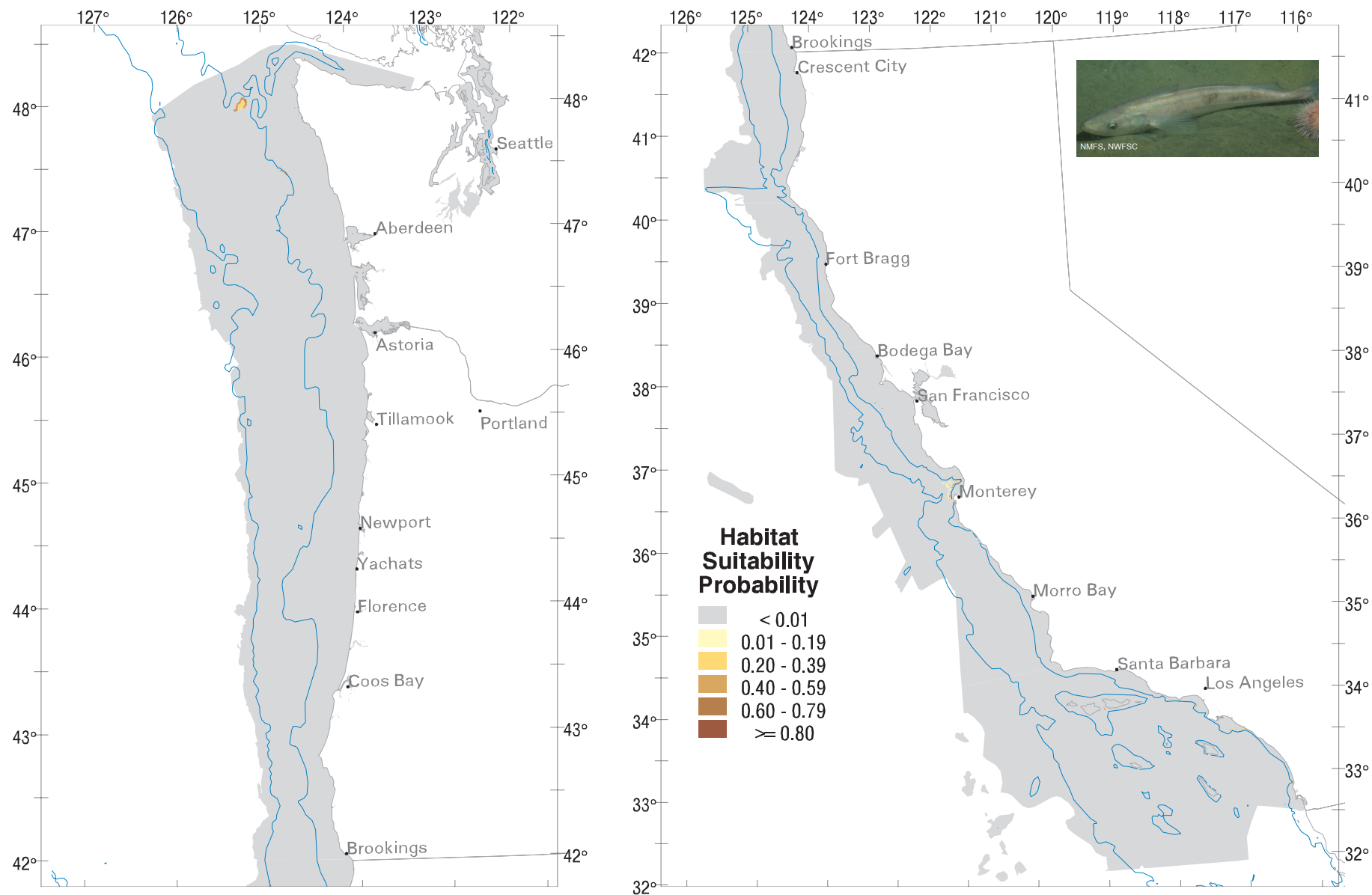
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Pacific Whiting - Eggs



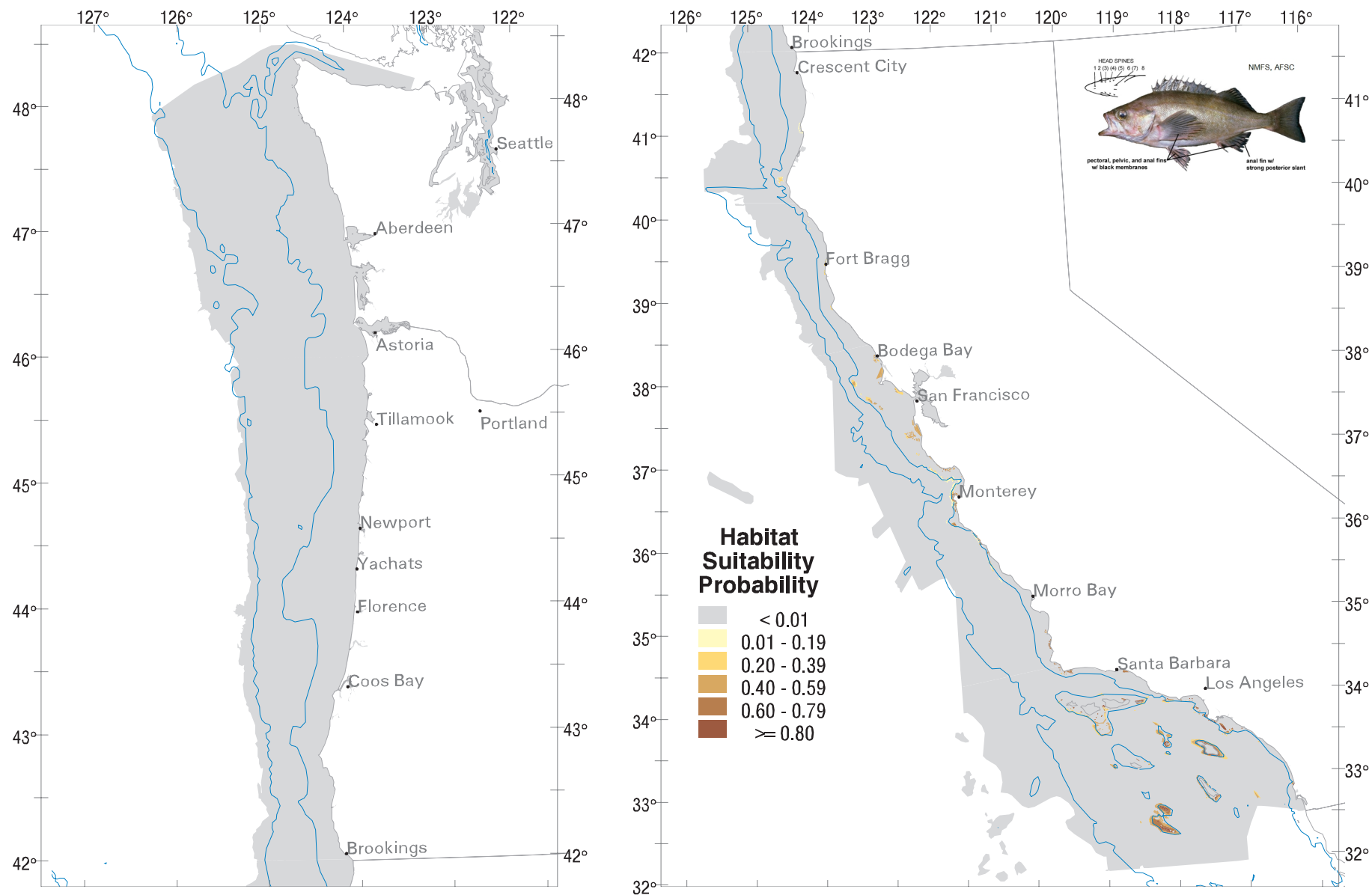
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Pacific Whiting - Juvenile



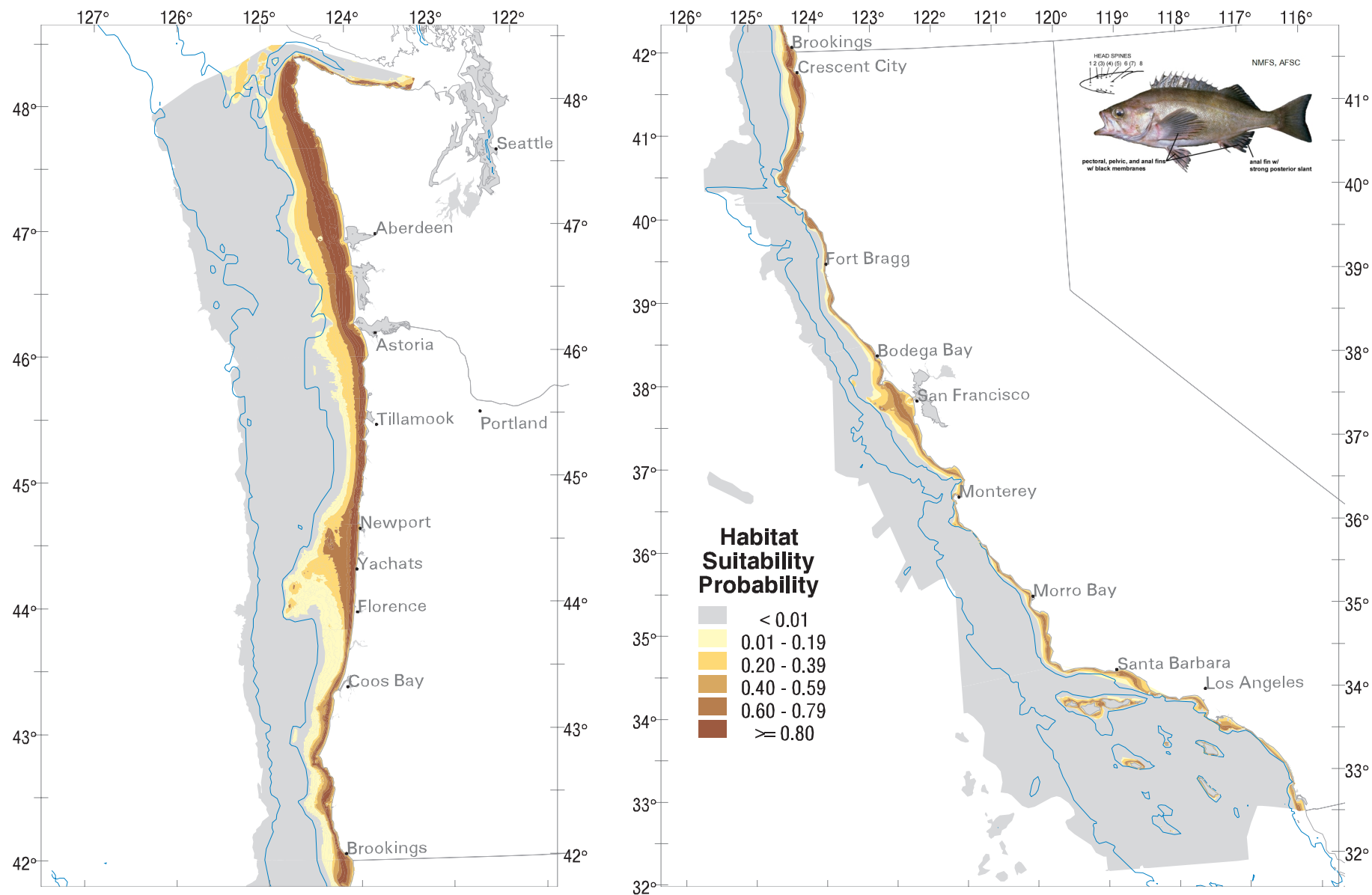
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Widow Rockfish - Adult



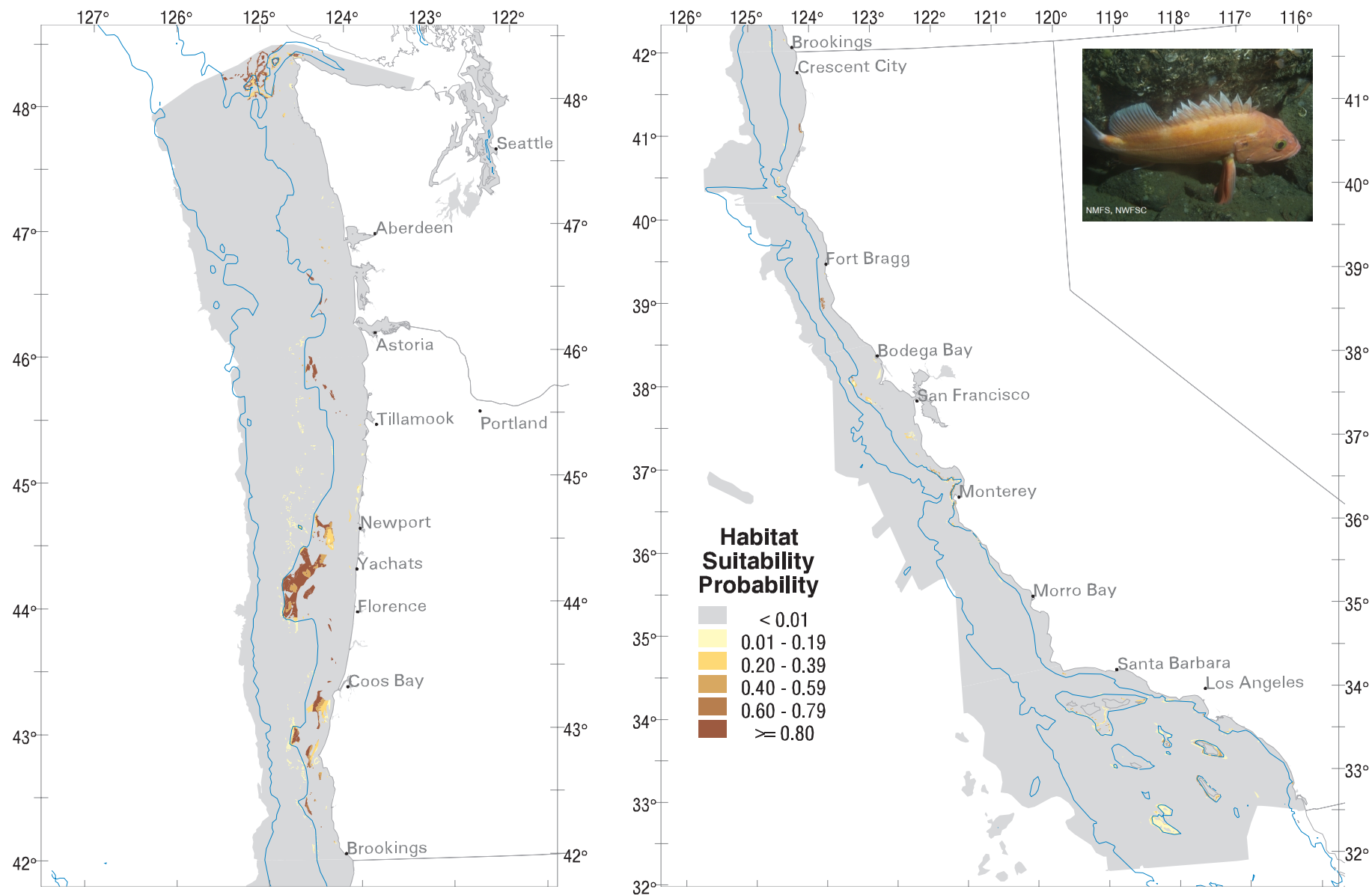
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Widow Rockfish - Juvenile



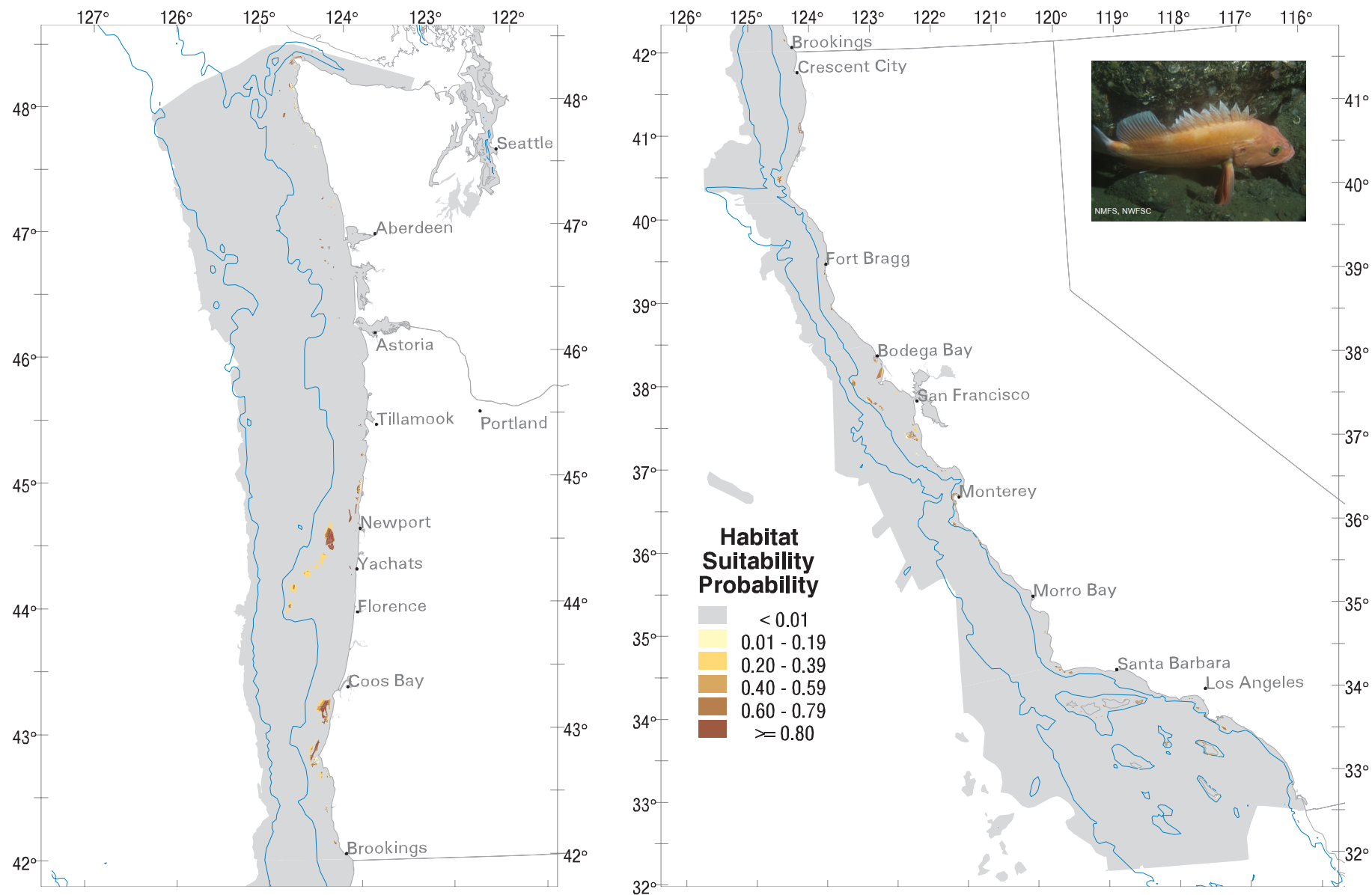
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Yelloweye Rockfish - Adult



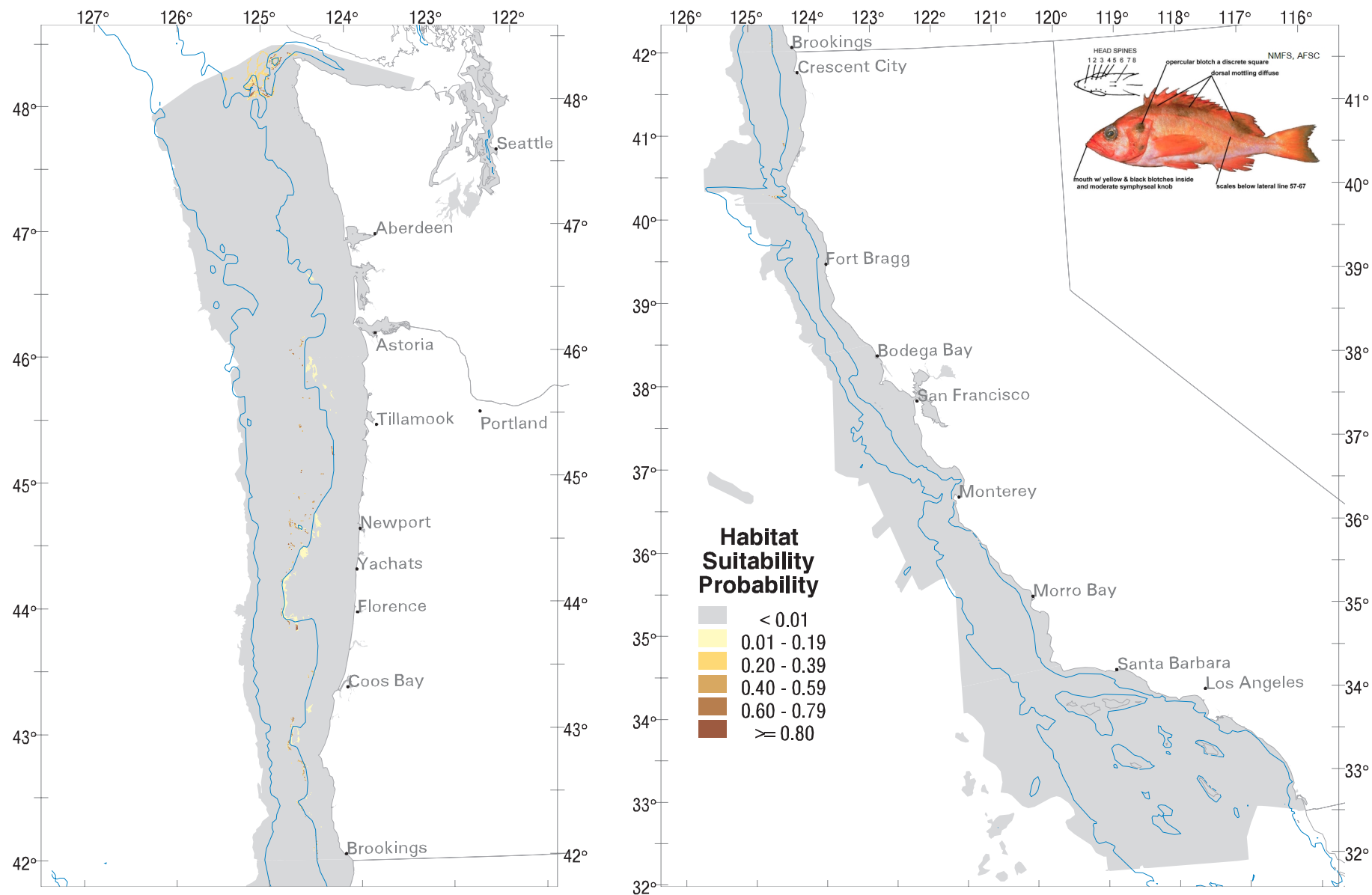
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Yelloweye Rockfish - Juvenile



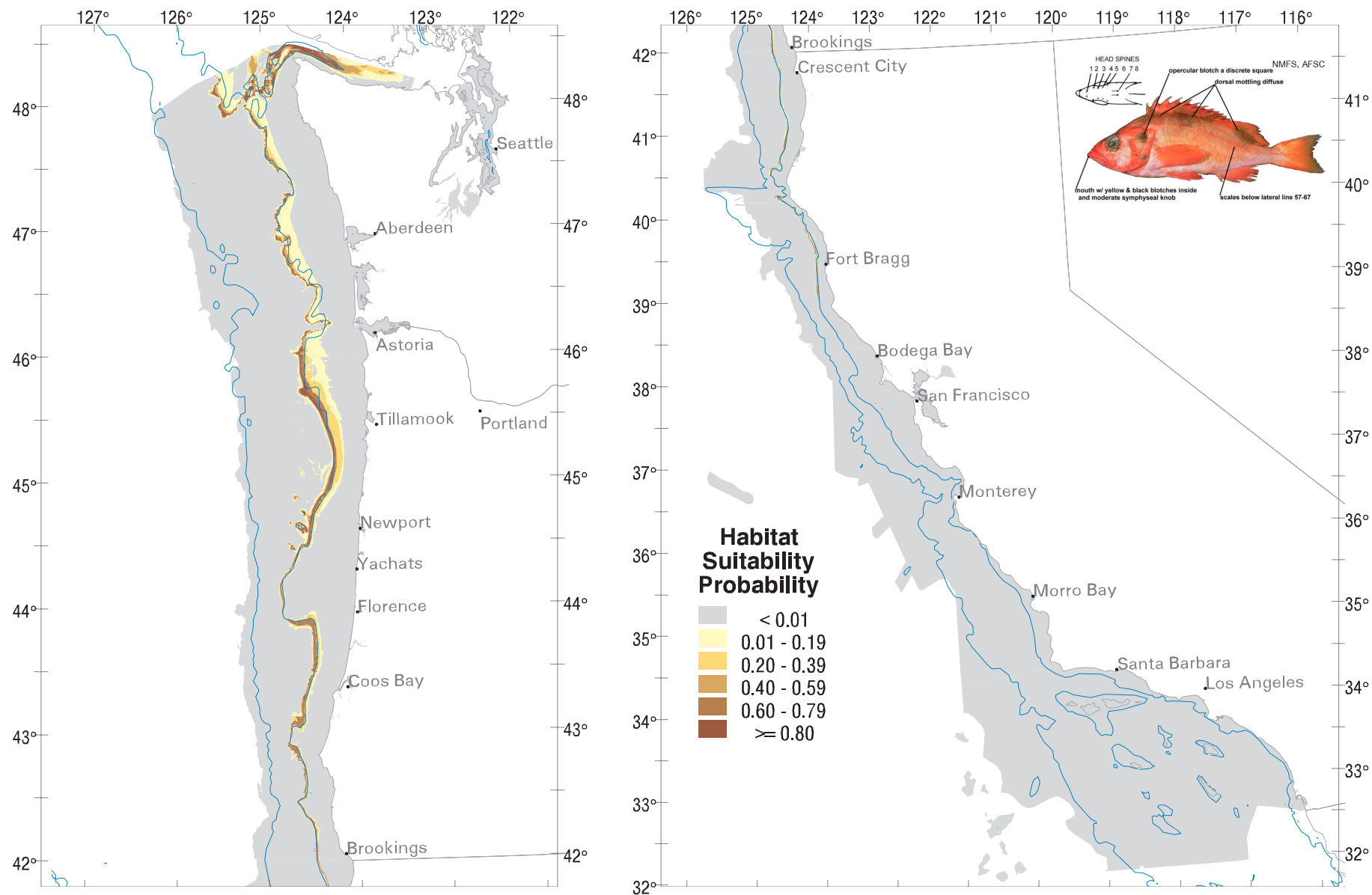
*Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*

Yellowmouth Rockfish - Adult



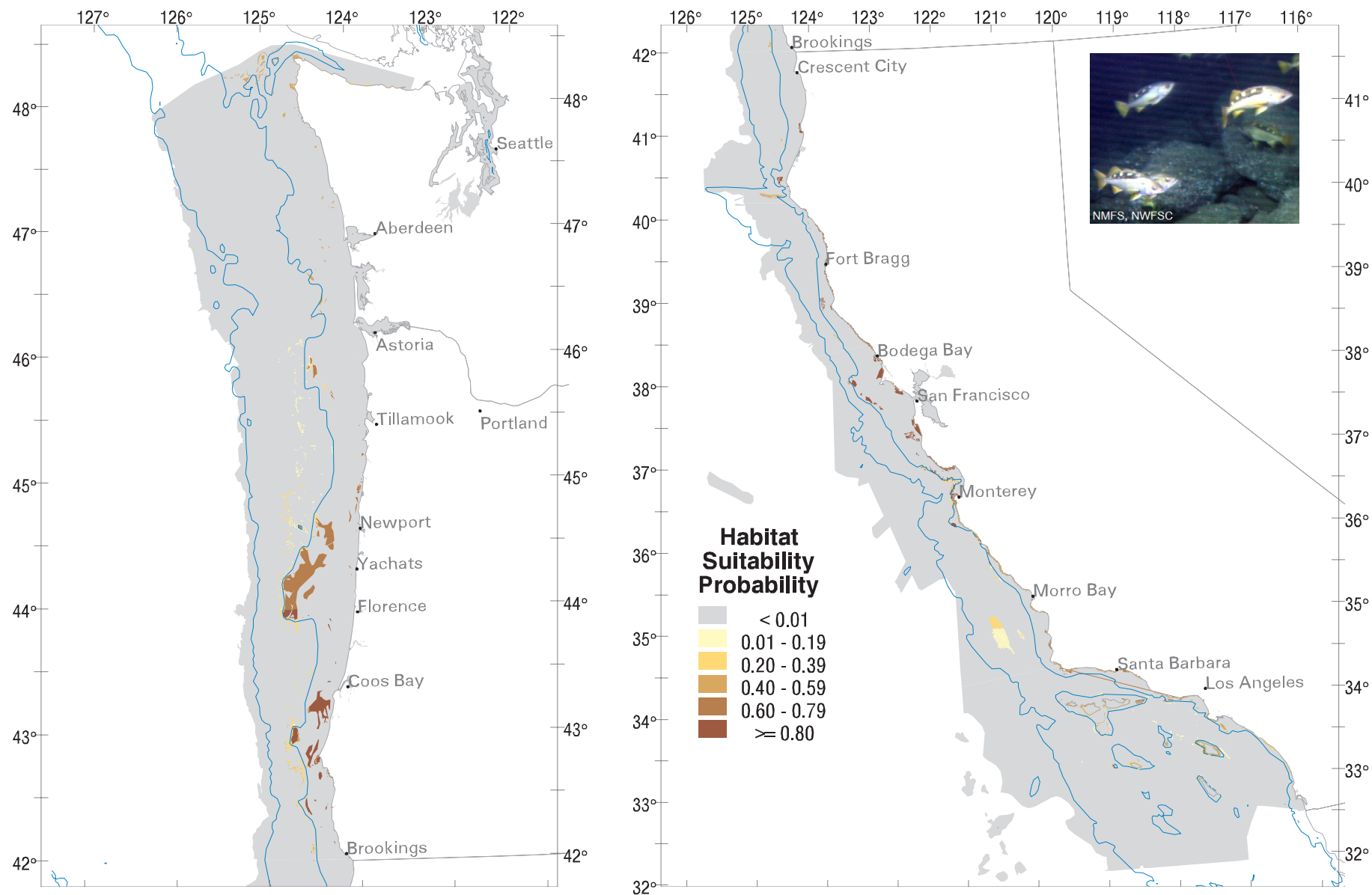
Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Yellowmouth Rockfish - Juvenile

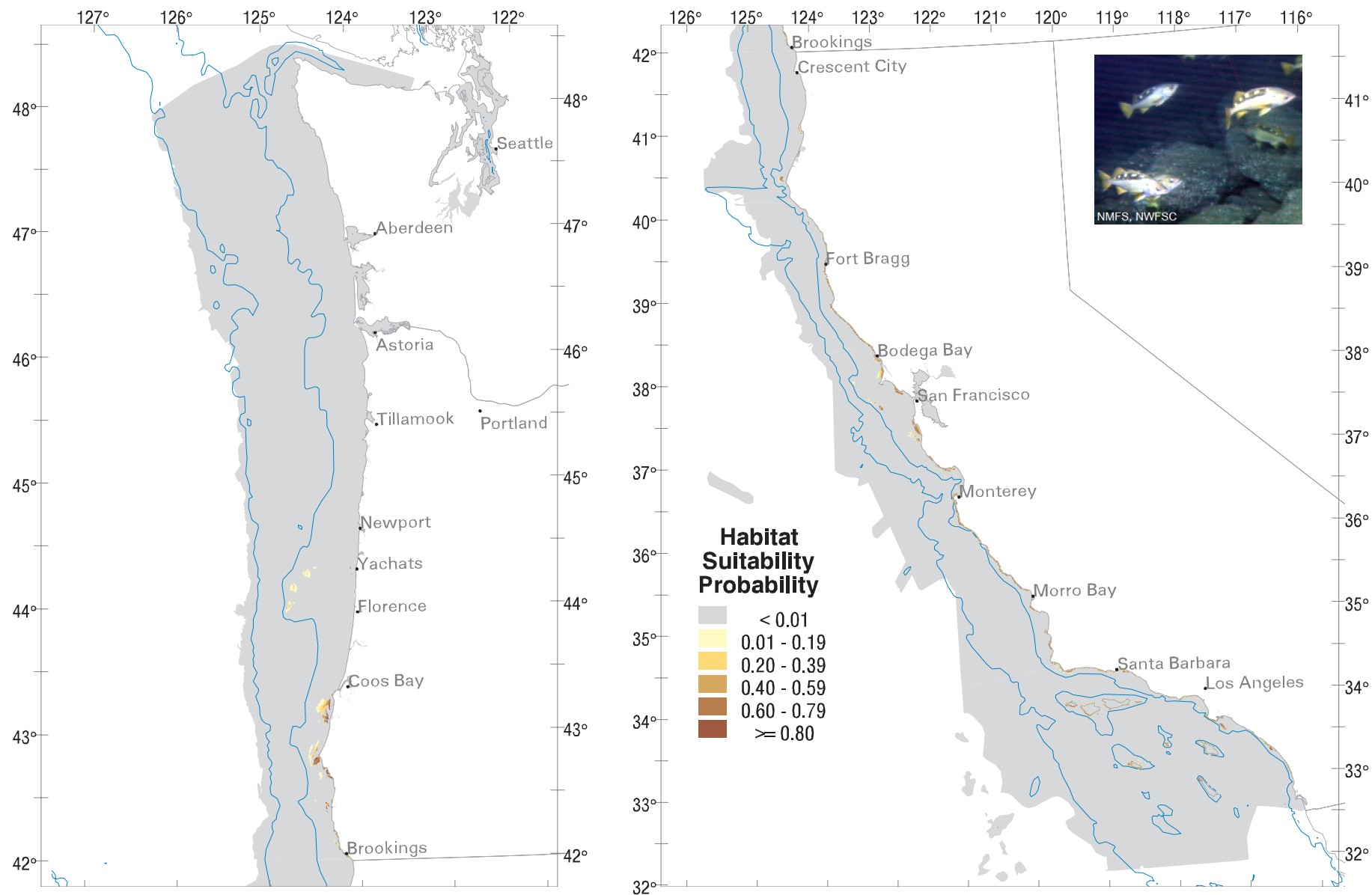


Habitat Suitability Probability data output from MRAG/University of Reading EFH model. Cartography by Sound GIS, map date: November 01, 2005
 Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD

Yellowtail Rockfish - Adult



Yellowtail Rockfish - Juvenile



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Species/habitat association for benthic substrate derived from NMFS Habitat Use Database (HUD). Depth and latitude association derived from: HUD*